Inclusion of Nordic textile and fashion work within the UN One Planet network

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SUMMARY

The global textiles and fashion industry is in urgent need of a sustainable transition. The Nordic textile and fashion sector has in recent years been leading the way towards this transition, not least by annually hosting the world’s first and largest Sustainable Fashion Summit (in Copenhagen) and is gradually developing a more sustainable profile.

The Nordic Council of Ministers (NCM) is further encouraging the Nordic transition through the development of no less than 16 projects since 2012 which have focused on green improvements across the full value chain. While focussed on Nordic stakeholders, due to the global nature of the textile industry, some of the outputs of these projects are also relevant and valid for instigating a green transition in other regions. The NCM projects represent a rich resource that deserves wider dissemination but which is as yet not being used to its full potential.

Under this project commissioned by the NCM and carried out by PlanMiljø and DIEH in Denmark and IVL in Sweden, a set of outputs have been developed which fully prepare the NCM for disseminating the Nordic textile project resources to a wider audience. Firstly, summaries of the 15 most globally relevant projects have been uploaded to the One Planet Network platform along with an ‘umbrella’ page that introduces the Nordic body of work and provides links to all 15 project summaries. The umbrella page can be accessed here.

Moreover, a detailed design has been developed for a stand-alone Sustainable Textiles and Fashion Hub that can sit within the OPN, with the Nordic projects at its core but which will grow dynamically as other stakeholders are encouraged to add their own projects and initiatives to the hub.

The vision is for a dynamic resource hub that guides policy makers and key stakeholders in the global value chain of textiles and fashion to resources of direct relevance to their needs, is constantly updated with new relevant resources and initiatives and creates a network of users that communicate with one another. The ultimate objective of the Hub is to provide a central one-stop shop to catalyse the green textile transition.

A communication plan has been developed that will allow the 15 uploaded Nordic projects to be disseminated and that will assist the NCM in finding resources either internally or externally to fund the implementation and maintenance of the Sustainable Textiles and Fashion Hub. The Hub is estimated to cost around 250 000 DKK in set-up costs and 150 000 DKK per year in running costs.

Finally, updates, adjustments and additional outputs from the 15 projects which will increase their global relevance have been proposed and scoped. Seven of these proposals could be implemented for a total of 12 consultant days and approximately 60 000 DKK in additional expenses.
Preface

The project was carried out in the period from August 2017 to January 2019 by experts from three Nordic organisations:

- David Watson and Anja Charlotte Gylling, PlanMiljø, Denmark
- Maria Elander and Jurate Miliute-Plepiene IVL, Sweden
- Mikkel Stenbæk Hansen, DIEH, Denmark

The project was led by David Watson (PlanMiljø). It was initiated and funded by the Nordic Working Group for Sustainable Consumption and Production. The project was guided by a Steering Group comprising Kaj Juhl Madsen (Danish EPA), Marianne Gjørv (Miljødirektoratet, Norway), Helena Dahlbo (SYKE, Finland) and Rebecca Uggla (Naturvardsverket, Sweden).

The project group wishes to thank Andrew Schmidt at One Planet Network (OPN) for his assistance in uploading documents to the OPN and for his participation in and positive response to discussions on designing a sustainable textile and fashion hub that fits to OPN formats and programming.
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1. BACKGROUND

Challenges for the fashion and textile sector
The fashion and textile sector is an engine of global growth and development with a €1.5 trillion turnover in 2016, and employing some 60 million people along its value chain (Fashion United, 2016) but at the same time has a high resource use, environmental and health impact. The consumption of textiles is the most impacting European consumption area after mobility, food and housing (EEA, 2013; JRC, 2014; Tukker et al 2006 etc.) and global consumption is forecast to increase from 62 million tonnes today to 102 million tonnes in 2030 (BCG and GFA, 2017).

As such the sector is in dire need of sustainable consumption and production (SCP) and green growth approaches. Over the past 5-7 years, reducing the environmental impacts of textile production and consumption has risen up the agenda both for governments in a wide range of countries and the textile industry itself. This is also the case in the Nordic region.

Ten Year Framework of Programmes on SCP
The 2002 Johannesburg Plan of Implementation on Sustainable Development recognised that ‘fundamental changes in the way societies produce and consume are indispensable for achieving global sustainable development’. The Plan committed to promoting the development of a 10 year framework of programmes (10YFP) in support of regional and national initiatives to accelerate the shift towards sustainable consumption and production. This development was continued under the Marrakesh Process which was partially implemented via the setting up of a number of Task Forces under different themes. One of these was the Task Force on Sustainable Lifestyles and Education led by the Swedish Ministry of Environment (Naturvårdsverket) established in 2005. The Task Force investigated the theme and initiated actions on the road towards establishing a Sustainable Lifestyles and Education Programme under the 10YFP.

The 10YFP was adopted at the Rio+20 Summit in Rio de Janeiro in 2012 and aims at enhancing international cooperation to enable a shift towards SCP patterns in both developed and developing countries. The framework supports capacity building, to develop, replicate and scale up SCP and resource efficiency initiatives, at national and regional levels.

The One Planet Network (OPN) is a key multi-stakeholder partnership for advancing the 10YFP, generating collective impact through the six programmes of the 10YFP: Public Procurement, Buildings and Construction, Tourism, Food Systems, Consumer Information, and Lifestyles and Education. The ONP has established an online platform for dissemination of SCP activities, information and news on partnerships. Each of the six programmes has its own area on the ONP website.

The programme for Sustainable Lifestyles and Education was launched in Tokyo in 2014 and is jointly led by the Ministry of Environment of Japan, the Government of Sweden represented by the Stockholm Environment Institute and WWF.

The Nordic Council of Ministers and SCP
In September 2015 the UN adopted a global agenda for sustainable development – Agenda 2030 – which features 17 Sustainable Development Goals (SDGs). The first key objective of SDG 12 is to implement the 10YFP on SCP.

The Nordic countries have pledged to implement the UN’s global agenda. In order to underpin and increase the visibility of the agenda as part of Nordic co-operation, under the auspices of the Nordic Council of Ministers, the countries adopted a joint programme for the implementation of Agenda 2030 under the title “Generation 2030”. The programme has three main objectives:
• ensuring that the work of the Nordic Council of Ministers contributes to the implementation of Agenda 2030 by way of political focus and relevant projects;
• contributing to involvemenot in and knowledge sharing related to Agenda 2030 in the Nordic Region; and
• improving the visibility of the Nordic Council of Ministers’ work in the Nordic Region and internationally.

NCM’s sustainable textiles resource

The Nordic Council of Ministers (NCM) has engaged in the theme of sustainable textiles since 2012. The initial focus under the Nordic Council’s Green Growth Initiative was on measures to encourage more circular approaches to post-consumer textiles. The Nordic sustainable fashion and textiles action plan Well-Dressed in a Clean Environment broadened the scope to the whole value chain including Nordic brands, designers and buyers, Nordic design schools, textile producers in India, consumers and post-consumer textile collectors and processors.

The result is 16 NCM commissioned projects which together have produced 27 reports, policy briefs and case wallets, a sharing platform for design schools and designers, and a tool to assist purchasers in reducing hazardous chemical use in supply chains.

These collectively represent a rich resource which has already inspired and assisted a large number of stakeholders in Nordic lands.

The Nordic Region and Sustainable Fashion

The NCM projects and other work commissioned by national governments in the Nordic countries adds to, supplements and further encourages a transition that was already partially underway in the Nordic Region.

The Nordic countries have a strong fashion industry with many Nordic brands having established themselves on the international scene. Moreover, the Nordic industry is increasingly branding itself as striving towards sustainability. Key drivers in this transition have been the Nordic Fashion Association via the Nordic Initiative Clean and Ethical (NICE) campaign, and the annual Copenhagen Fashion Summit which has focused on sustainability in the fashion industry since its launch in 2009. A wide number of individual brands and companies have emerged in the Nordics with sustainability thinking at their core. These include platforms that allow C2C trading in clothing, brands engaging in classic, timeless design and durable quality, companies that lease clothing, use of recycled materials in new garments etc.

The NCM work has tapped into these initiatives and thinking and expanded them further. The NCM work strengthens the brand of sustainability in Nordic textiles and fashion, not least amongst Nordic consumers.

Spreading the word

The textile industry is a global industry, and it has been critical for NCM and the consultants and other organisations carrying out these studies to take a global perspective. Much of what has been developed — publications, guidelines and tools — has relevance outside the Nordic region. This work deserves to be spread to help build capacity in other regions.

The One Planet Network platform under the 10YFP represents an ideal platform for disseminating NCM’s sustainable textile resources and scaling up their impact. NCM is a forerunner in sustainability thinking and can play an important assistance role globally, thus scaling up the impact of the work carried out by the organisation and playing a role in greening the textile and fashion sector globally.
2. VISION

Disseminating the work of NCM and individual Nordic brands and organisations to other parts of the world via the Programme on Sustainable Lifestyles and Education can begin a transition towards more sustainable textiles in other countries. At the same time it should further strengthen the sustainability brand of the Nordic region as a whole and of the Nordic clothing and textile design abroad.

Including Nordic projects and initiatives, outcomes and tools in the Programme on Sustainable Lifestyles and Education can also potentially increase its visibility in Nordic countries amongst industry, educational institutions and governments and thus increase adoption of its recommendations. This should lead to companies globally becoming more sustainable but could also as a spin-off lead to more Nordic brands beginning to engage in sustainability initiatives. This could include design for longevity and ease of recycling, a better control of chemicals along their value chains, encourage more government departments to include green criteria when purchasing textiles and textile services etc. This would further accelerate the green transition in the Nordic textile industry and put the industry in a good position as material scarcity begins to make its mark on economies and industries.

Our Vision is for a Sustainable Textile and Fashion Hub hosted by the Programme on Sustainable Lifestyles and Education on the One Planet Network internet platform. The site guides policy makers and key stakeholders in the global value chain of textiles and fashion to resources of direct relevance. Stakeholders are also encouraged to upload their own resources and initiatives. The Hub begins with relevant Nordic textile resources at its core but quickly expands to include relevant resources from around the world. This accelerates the number of visits to the site and increases the momentum of the green transition within the sector. Meanwhile, the Hub strengthens the Nordic region’s profile as a centre of thinking and action in sustainable textiles and fashion.

3. PROJECT OBJECTIVES AND OUTPUTS

The overall objective is to support and enable the Nordic Council of Ministers and key partners to achieve the Vision above.

The first specific objective of the project is to develop analysis and materials that fully prepare the Nordic Council of Ministers and the Secretariat of the Programme on Sustainable Lifestyles and Education for establishing a sharing site for sustainable actions along the value chain of textiles and fashion with key Nordic outputs/guidance at its core and ensuring its continued life through others adding further resources to the site.

A second objective is to upload summaries of globally relevant Nordic textiles projects to the One Planet Network, and providing links to the project and its outputs to allow immediate dissemination of these projects to a wider audience.

The outputs of the project are as follows:

- A value chain structure for textiles that can form the basis for organising and disseminating textiles initiatives on the One Planet Network site
- Identification of Nordic sustainable textile outputs/guidance that have global relevance, and scoping of amendments/additional outputs that would improve the value of the project for global stakeholders
- A detailed design for a Sustainable Textile and Fashion Hub that can sit within the One Planet Network platform and is compatible with existing templates and styles within the platform
- Uploaded summaries of globally relevant Nordic textiles projects to the OPN site within existing templates
• **Uploading an overall summary page to the OPN website** that briefly describes the Nordic resources and provides links to all the uploaded project summaries

• **A Communication Strategy and accompanying materials (an article and a presentation)** that will assist the coming NCM Working Group on Circular Economy to find funding for establishing and maintaining the Sustainable Textile Hub and to assist them in disseminating the summaries of Nordic projects uploaded to the OPN.

These outputs are described in the following sections.

## 4. VALUE CHAIN STRUCTURE

### 1.1 Method

The value chain for textiles is complex and contains a range of leverage points for environmental improvements along with stakeholders who can implement or instigate the necessary changes. The objective of this phase was to develop a graphic representation of the value chain of textiles that could be used on the entry page to the Sustainable Textile and Fashion Hub to guide visitors to the themes and leverage points that are most relevant for them. The graphic representation should be intuitive and simple but have options for placement of all relevant sustainable textiles initiatives within the scheme.

The literature is full of graphic depictions and descriptions of the textiles value chain. Most relevant are those which take a sustainability angle and include reference to sustainability actions at various parts of the chain. We viewed and were inspired by the following literature: Ellen Macarthur Foundation (2017); BCG & GFA (2017) EEA (2014); Brito and Carbone (2008), Greenstrategy.se and Ellenschool.com. We analysed the different approaches of graphic depictions in these and their relative usefulness for our purposes with focus on suitability for placement of the Nordic resources within these. We also assessed how well they allow different stakeholders to see their roles.

Lifecycle/process phases, stakeholders and actions for improvement can be relatively easily combined. We have proposed life cycle phases as the graphic basis since this is intuitive and easy to follow by the viewer.

### 1.2 Potential dimensions

A graphic depiction of the consumption and production/value chain of textiles can be built around a number of key dimensions; life cycle or process phases, environmental impacts, stakeholders, actions for improvement, and environmental and social themes. We analysed these with the following result:

- **Life cycle/process phase** - ✔ intuitive, communicative
- **Environmental impacts** - ❌ unlikely that a user will be interested in a single impact type
- **Stakeholders** - ✔ connects directly to website users
- **Actions for improvement** - ✔ user may be actively looking for solutions
- **Environmental themes, social/working conditions** - ❌ hard to isolate

Lifecycle/process phases and actions for improvement can be relatively easily combined. Instead of representing a lifecycle phase and actions for improvement in that phase separately, sustainable actions can be used to effectively define the phase.

Thus the graphic depiction becomes a depiction of a cycle of positive actions. This has been followed for example by Ellen MacArthur Foundation (2017) and Ellenschool.com and the team decided to adapt these approaches into a graphic suitable to the needs of the Hub.
It is not easy to add Stakeholders to the graphic and maintain an intuitive simple diagram. Table 1 links stakeholders to lifecycle/process phases and actions. Some of these stakeholders may lie outside the value chain but have an influence on it. This can be for example, via defining the legal, economic and regulatory framework within which the value chain operates.

Table 1: Links between lifecycle processes, actions and stakeholders involved in these actions

<table>
<thead>
<tr>
<th>Lifecycle/process phase</th>
<th>Action type (covered by NCM projects?)</th>
<th>Direct stakeholders</th>
<th>Indirect stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fibre production</td>
<td>More sustainable fibres (only recycled fibre)</td>
<td>Fibre producers, designers, brands</td>
<td>Government, NGOs and Research organisations</td>
</tr>
<tr>
<td>Design</td>
<td>Connects to all actions (yes)</td>
<td>Designers, brands</td>
<td></td>
</tr>
<tr>
<td>Fabric and clothing production</td>
<td>Cleaner production (yes)</td>
<td>Producers, designers, brands</td>
<td></td>
</tr>
<tr>
<td>Distribution</td>
<td>Local production (no)</td>
<td>Entrepreneurs, brands</td>
<td></td>
</tr>
<tr>
<td>Use phase</td>
<td>Low impact care (no)</td>
<td>Brands/consumers</td>
<td></td>
</tr>
<tr>
<td>Reuse and recycling</td>
<td>Increase collection, reuse and recycling (yes)</td>
<td>Collectors, recyclers, fibre producers, brands</td>
<td></td>
</tr>
</tbody>
</table>

As can be seen many of the stakeholders appear in a number of different positions in the table. After some consideration we chose to include the stakeholders in a box depicted separately to the value chain to reduce complexity. This should not affect the usefulness of the diagram. As described later in Section 6, the graphic will allow visitors to find relevant initiatives in the Hub via two different routes: either by clicking on the stakeholder name that best describes them; or by clicking on the action area in the value chain that is of interest.

1.3 Final proposal for a graphic

The project team’s final proposal for a graphic is given in Figure 1.

Figure 1: Final proposal for a graphic representation for the entry page to the Sustainable Textiles and Fashion Hub
5. OVERVIEW AND ANALYSIS OF NORDIC OUTPUTS /GUIDANCES

1.4 Method

Not all recommendations, best practice, guidance and tools that have been developed under the various NCM projects are of equal relevance internationally. Some are restricted to a Nordic context or do not include concrete recommendations or guidance.

The aim of this phase was to go through all the Nordic textile project outputs and assess which of these could be of interest to stakeholders outside the Nordic Region. An additional objective was to recommend changes to outputs or additional outputs which could enhance their value for these stakeholders.

The team developed a decision tool for reviewing and assessing each of the NCM project outputs. This is graphically represented in Figure 2.

Figure 2: A decision tool for assessing relevance and need for adjustments/additional outputs

The team also developed an assessment template sheet that was filled in for each project according to the stages in the decision tool in Figure 2. The filled out template for each project is presented in Appendix 1. The template includes the following fields:

- links to project outputs,
- which stakeholders they would be useful for, and in which regions
- how the outputs would be used by these stakeholders
- what effect would this have on the green transition
- what obstacles are there to these actions/effect and how can these be overcome.

*adjustments can include the following:
- Removal of non-relevant elements
- Shortening, summarising
- Adjustments to take account of regional political, technical and economic frameworks
- Others as they arise...
The final bullet concerns improvements to existing outputs or alternative/additional outputs. The assessment template was approved by the project Steering Group.

1.5 Result of the Assessment

Table 1 gives an overview of the key results of the assessment for the 16 NCM projects. All but one are seen as being useful for stakeholders in regions outside the Nordic countries. For this project (Project number 15 in Table 1) only a single output has been produced so far and in Norwegian. Moreover, the focus of this is promotion of the Nordic Swan label which has limited interest outside the region.

The team proposed that summaries of the 15 remaining projects should be placed on the OPN (See Annex 1) with links to the current existing outputs. For one further project (Project 10) the only output, a sharing platform for Nordic design schools, is no longer accessible since no funding has been found to maintain the platform. Nevertheless the project’s concept could be repeated in other regions/countries and the project thus remains relevant.

For many of the projects the team has proposed additional outputs or updates/adjustments to existing outputs that would increase their relevance outside the Nordic region (and also inside the region in certain cases). These include updated policy briefs, films and updated guidance. Table 1 gives a brief overview of our proposals for adjustments along with estimated resources needed to implement them. It also identifies which stakeholders the existing outputs are of interest to. The full comprehensive assessments can be found in Annex 1.

It was not found possible to prioritise these according to magnitude of potential benefits as this would have required development of causal effect models for each project output and was beyond the scope of this project. The seven additional outputs that would require least resources to develop are identified in Table 1 in purple text. These would together require approximately 12 consultant days with an additional 60 000 DKK in additional expenses to complete.

Apart from the Nordic Sustainable Fashion and Textiles Action Plan (Project 9) all the projects are focused on one or two elements of the value chain diagram. Figure 3 provides an overview of how the projects’ foci are distributed.

Figure 3: The 16 NCM textile projects and the distribution of their focus across the value chain (project numbering consistent with Table 1)
Table 1: Summary of the assessments of the 16 Nordic Council of Ministers projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Outputs</th>
<th>Man days plus additional resources</th>
<th>Relevant stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project 1: Material flows in 3 countries</td>
<td>Summary on OPN? Yes ✔</td>
<td></td>
<td>Policy makers Collectors/sorters/recyclers</td>
</tr>
<tr>
<td>Changes/additional outputs?</td>
<td>Not necessary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project 2: Waste prevention targets/indicators</td>
<td>Summary on OPN? Yes ✔</td>
<td></td>
<td>Policy makers</td>
</tr>
<tr>
<td>Changes/additional outputs?</td>
<td>Additional 2 page summary of 5 waste prevention indicators and pros and cons</td>
<td>1 day + 5000 DKK</td>
<td></td>
</tr>
<tr>
<td>Project 3: EPR systems and new business models</td>
<td>Summary on OPN? Yes ✔</td>
<td></td>
<td>Policy makers Brands</td>
</tr>
<tr>
<td>Changes/additional outputs?</td>
<td>Updated Policy Brief to include overview of catalogue of business model types, plus summary of evaluation of models</td>
<td>2 days + 8000 DKK</td>
<td></td>
</tr>
<tr>
<td>Project 4: Nordic strategy for increased reuse/recycling</td>
<td>Summary on OPN? Yes ✔</td>
<td></td>
<td>Policy makers Collectors Sorters Recyclers</td>
</tr>
<tr>
<td>Changes/additional outputs?</td>
<td>Short report with updated info on available collection/sorting/recycling technologies</td>
<td>6 days</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Guidance document on how to develop a national textile strategy</td>
<td>10 days</td>
<td>Policy makers</td>
</tr>
<tr>
<td></td>
<td>Inspirational film on available collection/sorting/recycling technologies</td>
<td>5 days + 90 000 DKK</td>
<td>Collectors/sorters/recyclers</td>
</tr>
<tr>
<td>Project 5: Nordic Commitment</td>
<td>Summary on OPN? Yes ✔</td>
<td></td>
<td>Policymakers Collectors/sorters</td>
</tr>
<tr>
<td>Changes/additional outputs?</td>
<td>Updated Policy Brief with changes from 2017 report</td>
<td>2 days + 15 000 DKK</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Short case type report on lessons learned from the implementation phase of the pro</td>
<td>10 days + 20 000 DKK</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Web platform with step-by-step guide on certification</td>
<td>30 days + 20 000 DKK</td>
<td>Collectors/sorters</td>
</tr>
<tr>
<td>Project 6: Tirupur</td>
<td>Summary on OPN? Yes ✔</td>
<td></td>
<td>Policymakers Brands/Producers</td>
</tr>
<tr>
<td>Changes/additional outputs?</td>
<td>Four-page brief on the potentials and obstacles for applying Ecolabel standards and EMS in production countries.</td>
<td>2 days + 5000 DKK</td>
<td></td>
</tr>
<tr>
<td>Project 7: Gaining benefits from discarded textiles: LCA of treatment options</td>
<td>Summary on OPN? Yes ✔</td>
<td></td>
<td>Policymakers Brands Civil society</td>
</tr>
<tr>
<td>Changes/additional outputs?</td>
<td>Updated LCA results for additional countries energy mix</td>
<td>3 days per country</td>
<td></td>
</tr>
<tr>
<td>Project</td>
<td>Summary on OPN?</td>
<td>Changes/ additional outputs?</td>
<td>Man days plus additional resources</td>
</tr>
<tr>
<td>---------</td>
<td>----------------</td>
<td>-------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Project 8: Exports of used textiles</td>
<td>Yes ✔</td>
<td>Update Policy Brief with notes on relevance in other countries</td>
<td>2 days + 5 000 DKK</td>
</tr>
<tr>
<td></td>
<td></td>
<td>News article in international press</td>
<td>3 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Translate Policy Brief to French</td>
<td>15 000 DKK</td>
</tr>
<tr>
<td>Project 9: Nordic Sustainable Fashion and Textiles Action Plan</td>
<td>Yes ✔</td>
<td>Short guide on how to develop an action plan</td>
<td>7 days + 25 000 DKK</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Updated cases in background report for easy access and develop as online catalogue</td>
<td>20 days + 25 000 DKK</td>
</tr>
<tr>
<td>Project 10: sustainable design education</td>
<td>Yes ✔</td>
<td>Guidelines on how to establish and run a stakeholder group on sustainable design education</td>
<td>6 days plus 10 000 DKK layout</td>
</tr>
<tr>
<td>Project 11: Harmful chemicals and labelling</td>
<td>Yes ✔</td>
<td>Policy Brief with key findings and recommendations</td>
<td>2 days + 20 000 DKK</td>
</tr>
<tr>
<td>Project 12: Management of chemicals in supply chains</td>
<td>Yes ✔</td>
<td>Updated tool with lessons from user experiences</td>
<td>10 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Updated tool according to legislation in selected OECD countries</td>
<td>20 days</td>
</tr>
<tr>
<td>Project 13: Greener procurement healthcare textiles</td>
<td>Yes ✔</td>
<td>Updated guidance with latest EU GPP criteria, plus ecolabel updates</td>
<td>1 day + 5000 DKK</td>
</tr>
<tr>
<td>Project 14: Stimulating textile to textile recycling</td>
<td>Yes ✔</td>
<td>Not necessary</td>
<td></td>
</tr>
<tr>
<td>Project 15: Promoting ecolabelled textiles</td>
<td>No x</td>
<td>Not necessary</td>
<td></td>
</tr>
<tr>
<td>Project 16: Ecodesign criteria for textiles</td>
<td>Yes ✔</td>
<td>Not necessary</td>
<td></td>
</tr>
</tbody>
</table>
The differing focus with respect to the value chain also affects which stakeholders are of most relevance for a particular project. Policy makers interest is generally not limited to any one part of the value chain and they are the stakeholder most often mentioned as being relevant; in no less than 12 of the 16 project outputs.

Projects that focus on extending the lifetime of pre-owned textiles through reuse or recycling (Projects 1, 3, 4, 5, 7, 8, and 14) meanwhile, are relevant for collectors, sorters and recyclers, and in some cases also to brands.

Projects 10, 12, 14 and 16 are of interest to brands and designers in all regions, with their focus on control of supply chains, designing garments and textiles for longer lifetimes and ease of recycling and with inclusion of recycled materials.

6. DESIGN OF THE HUB

1.6 Method

The aim of this activity is to develop the design for a stand-alone Sustainable Textile and Fashion Hub within the One Planet Network internet site that provides a one-stop shop for global sustainable textile and fashion stakeholders, and makes use of existing OPN protocols as far as possible to limit re-programming costs and limit disruption to the OPN web design and look. The hub should allow for both those who wish to access existing resources and those who wish to upload new resources.

An extensive review of the OPN website and existing templates was carried out in order to develop plans and procedures for the incorporation of the Nordic outputs to the OPN. A number of meetings were held with Andrew Schmidt at OPN to discuss options and iteratively move towards a design that would achieve the objectives above.

A detailed design of the new site including diagrams is found in Annex 4. A short summary is given below.

1.7 Proposed Design Structure

A potential blueprint for a Sustainable Textiles Hub under the Sustainable Lifestyles and Education programme is the ‘Compras Sostenibles’ site under the Sustainable Public Procurement’s (SPP) area within the OPN. Compras Sostenibles was established to cater for Latin American and Caribbean stakeholders and networks that wish to share resources and initiatives online. It is a stand-alone hub that includes six themes under SPP and some unique menu headings that are not found elsewhere in the site.

The Compras Sostenibles template can relatively easily be adapted to our needs compared to other available templates on OPN. Using a similar structure for the new Sustainable Textiles and Fashion Hub and making use of the other existing templates on the OPN will limit the need for new programming as possible.

The part that will require most programming will be the development of the value chain diagram and its linkages to resources. The overall costs for development of the ‘Sustainable Textiles’ site on OPN will be calculated upon agreement on design/structure, and must be finally agreed with the NCM.

Location on OPN

The central hub-page is suggested to be located under the Sustainable Lifestyles and Education programme, similar to ‘Compras Sostenibles’ under SPP programme http://www.oneplanetnetwork.org/.
Central Hub-page

On the main page the value chain diagram will be presented and different textile initiatives can be filtered and searched. The central hub-page would also include a short introduction to the site. The following tabs on the top menu bar are proposed:

- **Home.** The ‘home page’ will contain the value chain diagram and a concise description on how to use this hub.

- **About the hub.** Here a short description of the site: When, how and why has this hub been developed.

- **Share your experiences.** Step by step guide to how stakeholders can upload their own initiatives and projects/resources. Since we will make use of the existing Resource (and potentially also Initiative) templates for uploading these, OPN’s existing step-by-step guide can be used.

- **Library.** Here the different initiatives and projects/resources on the ‘sustainable Textiles’ hub can be searched and found applying different filters.

Value chain approach

The value chain diagram will be combined/integrated with the existing search function enabling the ‘click on’ function on the diagram steps, illustrating relevant initiatives for the given step. (This is the part of the development plan that needs the most programming, which will need to be agreed with the project owners.)

Search filters

Proposed filters for finding projects (also called initiatives in the OPN) and resources of interest are listed below. All but two of these (marked in purple) already exists in the OPN database:

- Geographic coverage
- **Type of stakeholder** (see Figure 1 earlier)
- Region
- Country
- **Step in the value chain** (see Figure 1 earlier)
- Language
- Type of document
- Year of publication

Each of these filters will connect to any uploaded projects or resources that have been tagged with the relevant key-word. When a visitor clicks on any of the filter links they will be presented with a list of titles of the relevant projects/resources and a short summary of these. Clicking on any title will take the visitor to the full uploaded summary.

Upload summary templates

Nordic Council of Minister textile projects have already been uploaded to the OPN using the existing Global SCP Projects Database template (also called Global SCP Initiatives Database). This is described in Section 7 below and a certain layout has been used within the existing template to increase its interest for stakeholders. It is hoped that this will inspire other stakeholders when uploading their own initiatives.

Stakeholders may also make use of the existing Global SCP Resource Database template for uploading individual reports. However, we in general propose the Project database since the template is more prescriptive in what should be included.
Guidance for uploading new projects

Guidance for non-Nordic stakeholders on how to upload projects (initiatives) and resources using the relevant templates already exists. However, we have used a distinctive interpretation for a number of the fields within the template for the Nordic resources and would like to add some additional descriptions to describe this. If this is not possible then we would propose that those wishing to upload projects/resources contact a Hub maintenance person whose responsibility it would be to upload to and maintain the site. This will lead to a more useful site since in our experience the uploaded summaries vary widely in their quality and usefulness.

7. UPLOADING OF SUMMARIES OF NORDIC PROJECTS

The team has uploaded 15 project summaries of Nordic Council of Ministers projects to the One Planet Network site. All these have been uploaded using the Global SCP Projects Database template. The template has a summary field (max 300 words) and five other fields: Objectives, Activities, Impact and results, How to Get Involved, Related Content.

The team has filled these in using a particular method which has been followed consistently.

Summary: The intention is to grab the attention of the (global) stakeholders to which the particular project is most relevant. It is short and begins in each case with ‘Of interest to (stakeholder 1) and (stakeholder 2) wishing to …….(wished for activity).’ For example: Of interest to policy makers wishing to map out flows of textiles as a basis for circular economy policy initiatives.

Activities: this describes in bullets the key activities of the project and is relatively straightforward.

Impact and Results: this describes briefly in bullets the key results and outputs from the project that were identified during the assessment of projects (described in Section 6 and Annex 1) as of most relevance and interest to non-Nordic stakeholders.

How to get Involved: this describes which stakeholders should read/access which outputs. Example: ‘if you are a collector of used textiles or a policymaker, brand or member of civil society interested in (improving) the fate of post-consumer textiles read the Policy Brief. For deeper interest read the main report.’ Then a contact email is provided for the project manager.

Related Content: links have been provided to the websites where the main outputs are found. In addition copies of reports, guidance, policy briefs etc. have been uploaded to the site.

The summaries have been kept short and to the point, focusing on providing key messages to the targeted stakeholder groups.

In addition to uploading of these summaries, earlier summaries of the same projects that had been uploaded by other actors either to the Global SCP Projects Database or the Global SCP Resources Database have been removed.

8. COMMUNICATION STRATEGY

1.8 Objectives of the Communication Strategy

The two key objectives of the communication strategy as agreed upon with the Steering Group during November 2018 are as follows:
1. To inspire and raise awareness among relevant Nordic and global stakeholders in the textile and fashion value chain by disseminating summaries and recommendations from 15 NCM textile projects via the One Planet Network (OPN) website.

2. To attract relevant stakeholders and funding for implementation of the Sustainable Textile Hub which has been designed in detail under the project.

These differ somewhat from the objectives as defined in the original tender and the teams application which focused on raising stakeholders awareness of the Sustainable Textile and Fashion Hub once this had been established within the OPN. The changes have come as a result of increasing uncertainty on whether money will be set aside for implementing the Hub within the Nordic Council of Ministers. This is in part due to a decision taken during the second half of 2018 to merge the Working Groups on Waste (NAG) and Sustainable Consumption and Production (HKP) into a Working Group on Circular Economy (CØ). The new groups will have a smaller budget than the two current Working Groups combined.

The new objectives are illustrated in Figure 4.

Figure 4: The objectives of the communication strategy.

1.9 Objective 1: Dissemination of experiences from NCM textile projects

1.9.1 Background

As described earlier, the NCM has funded and published results from 16 projects concerning reducing the environmental impacts related to the production, consumption and end of life of textiles. Although primarily focussing on the Nordic region the project results include good practice, experiences and lessons learned that are applicable in countries and regions outside the Nordic region.

The NCM aims to support the transition to more sustainable consumption and production patterns in the textile value chain beyond the Nordic region by sharing and spreading the Nordic experiences and lessons learned. It also wishes to highlight the Nordic region as being at the forefront of sustainable thinking in the design, production, supply chain control, purchase, and post-consumer life of clothing and textiles and in the development of greener business models.

1 http://www.oneplanetcnetwork.org/knowledge-hub
Summaries of 15 of the 16 NCM textile projects have been uploaded to the Global SCP Project Database on the One Planet Network (OPN) website. This communication strategy includes proposed actions, target groups and communication materials for NCM to use in the process of raising awareness of the summarized experiences and lessons learned.

It should be noted that the team for this current project is not charged with implementing the communication strategy that it has developed.

1.9.2 Target groups

The 15 uploaded NCM textile projects differ in terms of content and focus. Hence, their recommendations and other outputs have relevance to a variety of different stakeholder groups (e.g. policy makers, textile producers, brands, designers, collectors, sorters, recyclers, consumers etc.) with a varying degree of relevance.

As described in Section 7, the first two to three sentences of each summary in the Global SCP Project Database on the OPN states which stakeholders could be interested in this project and its results. Thus stakeholders can immediately identify projects of interest when scrolling down through initiatives in the Global SCP Project Database.

Should the Sustainable Textile Hub be implemented this will include filters that will limit which projects a Stakeholder will see to only those of relevance to them.

As described in Section 5 common target group for 12 of the 15 uploaded projects are policy makers. While focused on Nordic policy makers, these projects are also relevant for policymakers in OECD countries facing similar challenges regarding textile design, production, consumption and end-of-life. Policy makers are currently also the main user group of the OPN website searching for and sharing SCP related experiences.

Another important target group for some of the 15 NCM textile projects' recommendations is the textile and fashion industry. This target group is currently not well-represented as users of the OPN site and it will require more effort to lead them to the OPN.

1.9.3 Proposed actions

Article / press release

It is recommended that NCM publishes an article / a press release (in English) communicating that the 15 summaries have been uploaded on the OPN website and how interested stakeholders could make use of them. Proposed wording for an article can be found in Annex 2. A shorter press release can be developed taking a starting point in the article.

The content of the article is summarised below:

- NCM has commissioned a wide range of projects and initiatives aiming at promoting more sustainable production and consumption of textiles and fashion. Outputs of these projects are applicable outside the Nordic Region.
- The outputs of these various projects address the full value chain for textiles. The projects have been categorisation according to position on the value chain. This categorisation process is highly useful and equally applicable to projects and initiatives carried out by other stakeholders in the Nordic region and globally.
- The main results are summarized and the full reports are uploaded on the OPN website. An umbrella summary for the Nordic projects has also been uploaded which provides links to all the projects. A link is provided to this page in the article.
• The results include tools, guidelines, case studies and policy recommendations to various aspects of sustainable textile production and consumption. The project results can be used by policy makers, businesses, NGOs and others for inspiration on how to promote more sustainable textile production and consumption.

• Some teasers/highlights from some of the projects’ outputs:
  o The range of collection rates of used textiles in Nordic countries and key elements of a strategy for increasing these.
  o Reuse has a far higher environmental benefit than recycling, regardless of where in the world this is carried out.
  o Export of used textiles found to give net environmental and social benefits, but codes of conduct are needed to reduce risks.
  o Development of a mature Nordic Commitment that assures transparency and guards against environmental and social risks.
  o Experiences of 10 Nordic brands that are closing the recycling loop and strategies they’ve used to overcome obstacles.
  o Tools to assist SMEs in managing chemicals in their supply chains.

• The uploading of project summaries for the Nordic projects are only a first stage in disseminating the Nordic textile work and providing a resource for stakeholders wishing to engage in a green transition of production and consumption of textiles. The longer term plan is for the development of a Sustainable Textiles and Fashion Hub in the OPN which will be open to uploading of projects/tools/guides by other global stakeholders.

It is proposed that the Article and Press release are sent to/released via the following media:
  o existing (global) press distribution lists including (Ecotextile News, DIEH newsletter, JUST Style, Aktuel Hållbarhet)
  o registered users/members of the OPN platform
  o members of the Programme for Sustainable Lifestyles and Education
  o members of the Global SCP Clearing House
  o members of relevant NCM working groups
  o Dansk Mode og Tekstiler newssite
  o Sustainable Fashion Academy
  o Swedish national platform located in Borås²
  o European Clothing Action Plan news site and members
  o Global Fashion Agenda and members
  o Mistra Future Fashion and members
  o Sustainable Apparel Coalition and members
  o Ellen MacArthur Fibre Initiative group/news

Social media (LinkedIn, Twitter) normally used by NCM press department

NCM/Norden website

Presentation at international events

Lessons learned and conclusions from the NCM textile projects have been presented at several events, including the Nationell verkstad för hållbara livsstilar (November 2018 in Sweden), the World Circular Economy Forum (October 2018 in Japan) and the Used Textiles: Value or Waste conference (December 2018 in Tallinn) at the start-up of a new Baltic-Nordic project on post-consumer textiles.

It is proposed that the upload of main lessons learned onto the OPN website is communicated along with the vision of an implemented Sustainable Textiles Hub at additional forums. These can include:

- the Copenhagen Fashion Summit (May 2019 in Copenhagen) and other events organized by the Global Fashion Agenda
- The first meeting of the Nordic working group on Circular Economy, in Copenhagen in the end of January 2019
- Events organised by the European Clothing Action Plan

1.10 Objective 2 - Enabling implementation of a Sustainable Textiles and Fashion Hub

1.10.1 Background

A detailed design proposal for a new Sustainable Textiles and Fashion Hub lying within the OPN website was developed under this project and is presented in Annex 4. The objectives of the Hub are to engage and inspire different stakeholders, to share good practice cases accelerating the transition towards more sustainable textile production and consumption patterns and to create a global platform for stakeholder collaboration.

The idea is to use the outcomes from the 15 globally relevant NCM textile projects as the starting point and initial core of the Sustainable Textile and Fashion Hub. The Hub should, however, be a living platform expanding over time by stakeholders around the world adding good practice cases and sharing their experiences.

The current project does not provide resources for actual implementation of the Sustainable Textile and Fashion Hub. Instead this communication strategy includes recommendations for how NCM and 10YFP/SCP can work towards enabling implementation of the Hub by securing the required financial means (funding).

1.10.2 Proposed actions

It is recommended that NCM and 10YFP/SCP make a joint effort to actively pitch the idea of the Sustainable Textile Hub to stakeholders with vested interest in accelerating the transition towards more sustainable textile flows in order to acquire the necessary funding for its implementation and

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3 https://www.norden.org
4 https://www.sei.org/events/used-textiles-waste-or-value/?bclid=IwAR2ZNBPHu4Fdm0D_PjepTnNUMxDeeMy0m3CI2qK5tr0qQ2JON-RUK3e1q8
development. The priority stakeholder will be the new Nordic Working Group for Circular Economy. If this fails other stakeholders can potentially be found within the umbrella of the Nordic Council of Ministers and external stakeholders.

It is recommended to develop and use two types of background material for the pitches: the Article described above and provided in Annex 2 and a short Briefing of the Hub and its benefits and an accompanying PowerPoint Presentation of the Nordic projects and the proposed Hub.

**Briefing**

The Briefing should be used as background information for potential investors in and/or partners for the Sustainable Textiles and Fashion Hub. It should be directed at decision markers, be well structured and easy to read, professionally laid out and not exceed two pages. It should be written in a way that it can be used towards both internal (within the Nordic Council) and external stakeholders.

Key messages/content:

- Vision for the Sustainable Textiles and Fashion Hub
- Potential effects and benefits from implementing a Sustainable Textiles Hub
- Proposal / description how the Sustainable Textiles Hub could/would work (including organisation, targets groups etc.)
- Estimated cost for implementation (including initial set-up and continuous management/uploads)

The text for a proposed Briefing can be found in Annex 3.

**Presentation**

The Presentation can be used as a complement to the Briefing in personal and virtual meetings with potential investors in and/or partners for the Sustainable Textile and Fashion Hub. It should be directed at decision markers, spark interest, include pictures and graphic components and have limited amount of text per slide.

Key messages/content:

- A vision for the Sustainable Textiles Hub
- Key results of interest from the 15 Nordic projects
- Potential effects and benefits from implementing a Sustainable Textiles Hub
- Proposed design of the Sustainable Textiles and Fashion Hub (as part of the OPN website)
- Estimated cost for implementation (including initial set-up and continuous management/uploads)

The presentation has been provided separately to the Nordic Council of Ministers.

**1.10.3 Target groups**

Target groups for the proposed actions are potential funders of and/or partners for the Sustainable Textiles Hub.

Internal target groups include:

- Nordic Working Group on Circular Economy (priority)
- Nordic Innovation
- Nordic Council Secretariat
- Generation 2030 Program
Potential external target groups include:

- Swedish and Japanese governments, leading the Sustainable Lifestyles and Education Programme under 10YFP
- Other Nordic governments / environment ministries
- European Clothing Action Plan and person responsible in the Commission
- Foundations (e.g. Bestseller foundation, KR Foundation, Villum Foundation)
- Textile branch organizations (e.g. Global Fashion Agenda, EURATEX)
- Non-Nordic governments / environment ministries
- UN Environment
- WBCSD
- World Economic Forum

1.11 Responsibility for implementing this strategy

This communication strategy including the proposed wording for an Article and a Briefing for potential funders of the hub presented in Annex 2 and 3, are deliverables of the current project. The consultants in the project team have no responsibility or obligation to further implement the strategy beyond these materials.

NCM decide to what extent this strategy should be implemented. It is strongly recommended that NCM define clear responsibilities and timelines for potential implementation.
9. CONCLUSIONS

The global textiles and fashion industry is in urgent need of a sustainable transition. The Nordic textile and fashion sector has in recent years been leading the way towards this transition, not least by annually hosting the world’s first and largest Sustainable Fashion Summit (in Copenhagen) and is gradually developing a more sustainable profile. The Nordic Council of Ministers is further encouraging this Nordic transition through the development of no less than 16 projects since 2012 which have focused on green improvements across the value chain.

While focussed on Nordic stakeholders, due to the global nature of the textile industry, some of the outputs of these projects are also relevant and valid for instigating a green transition in other regions. The NCM projects represent a rich resource that deserves wider dissemination but which is as yet not being used to its full potential.

The outputs developed during this current project fully prepare the Nordic Council of Ministers for disseminating the Nordic textile project resources to a wider audience. Firstly, the 15 most globally relevant projects have been selected, their key interest of relevance to non-Nordic stakeholders extracted and uploaded to the One Planet Network. An ‘umbrella’ page that introduces the Nordic body of work and provides links to all 15 project summaries has been uploaded on the OPN site and can be found here.

Moreover, a detailed design has been developed for a stand-alone Sustainable Textiles and Fashion Hub that can sit within the OPN, with the Nordic projects at its core but which will grow dynamically as other stakeholders are encouraged to add their own projects and initiatives to the hub.

A communication plan has been developed that will allow the 15 uploaded projects to be disseminated and that will assist the NCM in finding resources either internally or externally to fund the implementation and maintenance of the Sustainable Textiles and Fashion Hub. Finally, updates, adjustments and additional outputs from the 15 projects which will increase their global relevance have been proposed and scoped. Seven of these proposals could be implemented for a total of 12 consultant days and approximately 60 000 DKK in additional expenses.
10. REFERENCES


EEA (2014) Environmental Indicators Report, Environmental Impacts of Production-Consumption Systems In Europe


ANNEX 1: ASSESSMENT OF NCM TEXTILE PROJECTS’ RELEVANCE FOR NON-NORDIC STAKEHOLDERS

Project 1: Material flows of textiles in three Nordic countries and suggestions on policy instruments

Output title/type (report, guidance, website etc.)

Report ‘Prevention of Textile Waste: Material flows of textiles in three Nordic countries and suggestions on policy instruments’

Does the output provide any of the following (tick one or more as appropriate)

- Tools
- Guidelines
- Cases
- Policy recommendations/strategy ✔
- Research messages on hot issues

This report is effectively a precursor to much of the subsequent work that was carried out by the Nordic Council of Ministers. It includes a mapping of textile flows in 3 countries and identified the key issues of interest and made recommendations for further work. Much of this further work was subsequently carried out under Projects 3, 4, 5 and 7 below, and the mapping was repeated and partially updated under Project 4. That said it remains as the most downloaded of all the NCM textile reports and continues to be downloaded. It can act as a useful introduction to the textiles arena for governments and civil society.
Project 2: Proposals for targets and indicators for waste prevention in four waste streams (2013)

Output title/type (report, guidance, website etc.)

| Report: Proposals for targets and indicators for waste prevention in four waste streams |

Does the output provide any of the following (tick one or more as appropriate)

- Tools ✔
- Guidelines
- Cases
- Policy recommendations/strategy ✔
- Research messages on hot issues

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stakeholder type</td>
<td>Country type</td>
</tr>
<tr>
<td>Tool – 5 proposed targets and indicators for waste prevention in textiles</td>
<td>Policy makers</td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output’, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Produce a 2 page summary of the 5 textile waste prevention indicators and their pros and cons</td>
<td>1 day</td>
</tr>
</tbody>
</table>
Project 3: EPR systems and new business models: reuse and recycling of textiles in the Nordic region

Output title/type (report, guidance, website etc.)

| Report: “EPR systems and new business models: Reuse and recycling of textiles in the Nordic region” |
| Report: “EPR-systems and new business models: Part II: Policy packages to increase reuse and recycling of textiles in the Nordic region” |
| Policy Brief: “EPR systems and new business models - reuse and recycling of textiles in the Nordic region” |

Does the output provide any of the following (tick one or more as appropriate)

- Tools
- Guidelines
- Cases ✔
- Policy recommendations/strategy ✔
- Research messages on hot issues

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stakeholder type</td>
<td>Country type</td>
</tr>
<tr>
<td>Cases - Catalogue and evaluation of business models that extend product lifetimes</td>
<td>Brands/retailers</td>
</tr>
<tr>
<td>Policy recommendations - Policy proposals that could promote EPR and green business models</td>
<td>Policy makers</td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output’, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update the policy brief to include an overview of the catalogue of business model types, plus a summary of the evaluation of relative benefits of three models. Provide links to the three Mistra Future Fashion projects which have built further on the NCM work here</td>
<td>2 days</td>
</tr>
</tbody>
</table>
Project 4: Nordic Strategy for increased reuse and recycling of textiles

Output title/type (report, guidance, website etc.)

Report: “Towards a Nordic textile strategy (Collection, sorting, reuse and recycling of textiles)”
Report: “A Nordic textile strategy Part II: A proposal for increased collection, sorting, reuse and recycling of textiles”
Policy Brief: “A Nordic strategy for collection, sorting, reuse and recycling of textiles”.

Does the output provide any of the following (tick one or more as appropriate)?

- Tools
- Guidelines
- Cases ✔
- Policy recommendations/strategy ✔
- Research messages on hot issues

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description of output – can include tools, guidelines etc.</th>
<th>Interested stakeholders</th>
<th>Obstacles to this use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of European and global markets for collected used textiles including identification of main drivers and barriers for development of these markets</td>
<td>Textile collector/W M companies</td>
<td>OECD countries</td>
</tr>
<tr>
<td></td>
<td>Policy makers</td>
<td></td>
</tr>
<tr>
<td>Summary of collection systems, sorting and recycling technologies</td>
<td>Collectors Sorters Recyclers</td>
<td>OECD countries</td>
</tr>
<tr>
<td></td>
<td>Policy makers</td>
<td></td>
</tr>
<tr>
<td>Strategy for increased collection, sorting, reuse and recycling of textiles</td>
<td>Policy makers</td>
<td>OECD countries</td>
</tr>
<tr>
<td>Description (of output – can include tools, guidelines etc.)</td>
<td>Interested stakeholders</td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------------------</td>
<td>-------------------------</td>
<td></td>
</tr>
<tr>
<td>Stakeholder type</td>
<td>Country type</td>
<td>How would they use it?</td>
</tr>
<tr>
<td>-----------------------------------------------------------</td>
<td>-------------------------</td>
<td></td>
</tr>
<tr>
<td>The proposed policy measures can serve as inspiration / starting point for other countries assessing additional policy measures for used textiles.</td>
<td>increased collection). Potential investments in textile collection, sorting and recycling. Increased access to second-hand garments (reuse) and secondary textile raw materials (recycling).</td>
<td>need much additional work in the individual countries.</td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output’, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Short report with updated information on available collection/sorting/recycling technologies and projects (including pictures to illustrate best practice).</th>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspirational film on available collection/sorting/recycling technologies</td>
<td>6 days</td>
<td>90 000 DKK for short film (production costs including filming, infographics, cutting, voice overs etc.).</td>
</tr>
<tr>
<td>Guidance document on how to develop a national textile strategy taking background in the Nordic Strategy development</td>
<td>10 days for drawing out key elements of process, questions to be considered and helpful insights</td>
<td>20 000 for layout</td>
</tr>
</tbody>
</table>
### Project 5: The Nordic textile reuse and recycling commitment

**Output title/type (report, guidance, website etc.)**

<table>
<thead>
<tr>
<th>Report: “Collection, sorting, reuse and recycling” . Presents background information for the development of proposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report: “A proposal of a common quality requirement system for textile collection, sorting, reuse and recycling”</td>
</tr>
<tr>
<td>Proposals for the commitment</td>
</tr>
<tr>
<td>Report: “A certification system for used textiles and textile waste” Summarises the implementation period of the project</td>
</tr>
<tr>
<td>Policy Brief: “The Nordic textile reuse and recycling commitment” (Based on the first two reports).</td>
</tr>
</tbody>
</table>

Does the output provide any of the following (tick one or more as appropriate)?

- **Tools ✔**
- **Guidelines ✔**
- Cases
- Policy recommendations/strategy
- Research messages on hot issues

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Stakeholder type</th>
<th>Country type</th>
<th>How would they use it?</th>
<th>Effect?</th>
<th>Obstacles to this use</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 3rd party certified voluntary certification system, which ensures sustainable and transparent handling of used textiles. There are two types of certification: one for collection of textiles aimed for re-use only, and one for collection of both textiles for re-use and textile waste for recycling. The system includes performance criteria for operation and development, fees and audits.</td>
<td>Policy makers (Producers/importers, Textile collectors/charities, Recyclers, Waste companies, Consumers, Retailers if the system would be launched)</td>
<td>OECD countries</td>
<td>As an inspiration for possible adaptation and/or implementation of a voluntary commitment for sustainable collection and handling of used textiles</td>
<td>Improvements in end of life textile management enables growth in the 2nd hand market Potential for creation of new jobs (largely in the EOL segment) Increases in efficiency of textile value chain</td>
<td>The certification system was built upon how used textiles are collected (and handled) in Nordic countries. Other countries might have different waste legislation and different structures for collection and need to adapt the proposed voluntary commitment before introducing a similar scheme. Low consumer awareness / low engagement from collecting actors might limit the impact of the effects of a certification scheme (unless made legally binding).</td>
</tr>
</tbody>
</table>

| Documentation of practical test run of implementation of certification scheme based on: 1) criteria for collectors for re-use only | Policy makers | OECD countries | Inspiration to launch their own voluntary commitment for sustainable handling of used textiles | Improvements (quantities and quality) in collection and handling of used textiles resulting in a more efficient textile value chain. | The certification system was only tested for textile collectors and not for other stakeholders (e.g. brands/retailers, sorters, recyclers) even if some theoretical documentation was provided. Needs assignment of Certification System Operator (CSO) |
## Description (of output – can include tools, guidelines etc.)

<table>
<thead>
<tr>
<th>Interested stakeholders</th>
<th>Stakeholder type</th>
<th>Country type</th>
<th>How would they use it?</th>
<th>Effect?</th>
<th>Obstacles to this use</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2) criteria for collectors aimed for re-use and recycling</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3) self-assessment checklist for collection for re-use only,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4) self-assessment checklist for collection for re-use and recycling,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5) description of certification system operation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- If the system will/would be launched in Nordic countries:
  - Sorters
  - Recyclers

- OECD countries

- They could participate directly in the Nordic voluntary commitment that can potentially be extended to include other countries

- Quality improvements in handling of collected used textiles resulting in a more efficient textile value chain.

- The certification system was only tested for Nordic countries. Criteria, checklists, targets etc. might have to be adjusted for other countries. There might for example be differences in legal requirements, that might conflict with criteria and/or checklist

### Recommendations for adjustments to output, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>A web platform that could guide organisations step by step through the certification process</td>
<td>30 man days (including programming)</td>
</tr>
<tr>
<td>An updated Policy Brief incl. changes of 2017 (e.g. key benefits of the certification system for different stakeholders, an overview of key elements of certification).</td>
<td>2 days for investigating new sources and making changes to policy brief</td>
</tr>
<tr>
<td>Short case type report on lessons learned from the implementation phase of the project (e.g. the results of the audits of 4 collector organisations) should be implemented in a future revised version of the certification system.</td>
<td>10 man days</td>
</tr>
</tbody>
</table>
Project 6: Sustainable textile production and use of ecolabels – the case of Tirupur

Output title/type (report, guidance, website etc.)

| Report: “The Potential for Green Textile sourcing from Tirupur – on the path to more sustainable global textile chains” |
| Report: “Sustainable Textile Production Tirupur, India” |

Does the output provide any of the following (tick one or more as appropriate)

- **Tools ✔**
- **Guidelines ✔**
- **Cases ✔**
- **Policy recommendations/strategy**
- **Research messages on hot issues**

Describe briefly and identify potentially interested stakeholders:

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stakeholder type</td>
</tr>
<tr>
<td>The two report is made of 1) an analysis focuses on the potentials and obstacles for applying Ecolabel standards and environmental management systems in Tirupur to positively influence environmental performance locally and 2) a pilot project aiming at capacity building through workshops, training and seminars.</td>
<td>Brands (Buyers) /suppliers</td>
</tr>
<tr>
<td>Suggestions for how to increase the use of Ecolabel standards and environmental management systems in Tirupur.</td>
<td>Policymakers</td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output’, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four-page brief on the potentials and obstacles for applying Ecolabel standards and environmental management systems in the textile sector: Convert the results into more general findings and recommendations, not specific to the Tirupur area. Based on interviews with authors of the report.</td>
<td>2 days</td>
</tr>
</tbody>
</table>
Project 7: LCA comparison of pathways for discarded textiles

Output title/type (report, guidance, website etc.)

Report: “Gaining benefits from discarded textiles: LCA of different treatment pathways”
Excel spreadsheets giving detailed results

Does the output provide any of the following (tick one or more as appropriate)

- Tools ✔
- Guidelines
- Cases
- Policy recommendations/strategy
- Research messages on hot issues ✔

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stakeholder type</td>
<td>Country type</td>
</tr>
<tr>
<td>Result that reuse is always better than recycling and that recycling is mostly better than incineration</td>
<td>Policymakers</td>
</tr>
<tr>
<td>Tool - LCA datasets giving detailed results for 1kg of textiles (differentiated by fibre type) following different treatment routes</td>
<td>Policymakers, Brands/retailers, Civil society</td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>The one page summary should be sufficient for the purposes. Need to ensure that this is clear concerning limitations in the applicability of the incineration results to other countries</td>
<td>1 day</td>
</tr>
<tr>
<td>Updated LCA results covering energy mix in selected countries, or for average EU energy mix</td>
<td>3 days per additional country/region</td>
</tr>
</tbody>
</table>
## Project 8: Exports of Nordic Used Textiles: Fate, benefits and impacts

**Output title/type (report, guidance, website etc.)**

<table>
<thead>
<tr>
<th>Report</th>
<th>“Exports of Nordic Used Textiles: Fate, benefits and impacts”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policy Brief</td>
<td>“Exports of Nordic Used Textiles: Fate, benefits and impacts”</td>
</tr>
</tbody>
</table>

Does the output provide any of the following (tick one or more as appropriate)

- Tools
- Guidelines
- Cases
- **Policy recommendations/strategy** ✔
- **Research messages on hot issues** ✔

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stakeholder type</td>
<td>Country type</td>
</tr>
<tr>
<td>-----------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Result that there are net environmental gains from exporting used textiles.</td>
<td>Collectors/sorters OECD countries Communication with members and public, justification in press</td>
</tr>
<tr>
<td>Questioning need/effct of import bans for used textiles to project local industry</td>
<td>Policy makers Sorting countries/Developing countries Question upcoming bans</td>
</tr>
<tr>
<td>Recommendations for collectors on how to reduce negative social/economic impacts</td>
<td>Collectors OECD countries Adjust their approach to for example: Adopt CoC Remove waste from exports Support collection of post-consumer textiles in developing countries Ensure responsible handling of waste</td>
</tr>
<tr>
<td>Recommendations for policy makers on how to reduce negative</td>
<td>Policy makers OECD countries Encourage them to Develop guidance for exporters</td>
</tr>
<tr>
<td>social/economic impacts</td>
<td>Encourage adoption of CoC Assistance to developing countries in better collection treatment of household waste</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policy Brief is a useful output with all the key messages. Recommendations are seen as equally valid for collectors and policy makers in non-Nordic countries. Perhaps need to add some notes on conditions under which findings may or may not be relevant in other countries. This could be a little box within each section.</td>
<td>2 days for investigating new sources and making changes to policy brief</td>
<td>5000 DKK for layout change</td>
</tr>
<tr>
<td>Translation to French for use in French speaking African countries with high imports of used textiles such as Rwanda/Burundi/Congo</td>
<td></td>
<td>10 000 DKK for translation. 5000 DKK for layout</td>
</tr>
<tr>
<td>News article in international textile press such as EcoTextile News or international humanitarian press such as IRIN News</td>
<td>1 day for writing article 2 days for identifying and sending to magazines/press</td>
<td></td>
</tr>
</tbody>
</table>
Project 9: Nordic Action Plan for sustainable fashion and textiles

Output title/type (report, guidance, website etc.)

Background report: "Mapping sustainable textile initiatives and a potential roadmap for a Nordic action plan"
Action Plan: "Well dressed in a clean environment: Nordic Action plan for sustainable fashion and textiles"

Does the output provide any of the following (tick one or more as appropriate)?

- Tools
- Guidelines
- Cases ✔
- Policy recommendations/strategy ✔
- Research messages on hot issues

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description of output – can include tools, guidelines etc.</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Collection of different initiatives engaging in more sustainable textiles (categorized into four groups REPLACE, REDUCE, REDIRECT and RETHINK)</strong></td>
<td>Stakeholder type</td>
</tr>
<tr>
<td>- Textile producers</td>
<td>OECD countries</td>
</tr>
<tr>
<td>- Designers</td>
<td></td>
</tr>
<tr>
<td>- Brands/retailers</td>
<td></td>
</tr>
<tr>
<td>- Civil society</td>
<td></td>
</tr>
<tr>
<td><strong>Action plan for Nordic countries including short descriptions of upcoming initiatives for relevant stakeholders</strong></td>
<td>Policy makers</td>
</tr>
<tr>
<td>Description (of output – can include tools, guidelines etc.)</td>
<td>Interested stakeholders</td>
</tr>
<tr>
<td>-------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Stakeholder type</td>
<td>Country type</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output*, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Description</th>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Updating collection of initiatives and structuring of the initiatives in a way making them more easily accessible for different stakeholder groups (as condensed easy-to-read catalogue. This could potentially be an online interactive catalogue that guided different types of users to cases of relevance for them.</td>
<td>10 days for collection and presentation of new cases 10 days for programming of interactive catalogue</td>
<td>25 000 DKK for layout</td>
</tr>
<tr>
<td>Short Guide on how to develop an Action Plan</td>
<td>7 days for developing conceptual flow and writing</td>
<td>25 000 DKK for layout</td>
</tr>
</tbody>
</table>
Project 10: Promotion of sustainable Nordic design through education

Output title/type (report, guidance, website etc.)

Website platform for designers and design schools [https://sustainable-edu.com/](https://sustainable-edu.com/)

Does the output provide any of the following (tick one or more as appropriate)

- [ ] Tools
- [ ] Guidelines
- [ ] Cases
- [ ] Policy recommendations/strategy
- [ ] Research messages on hot issues

The website is no longer accessible. One of the project partners Danish Fashion Institute (DAFI) has informed us that the website was taken down due to lack of money to continue to maintain and update it with new information. An application was made to NCM for funds to continue the platform but this was unsuccessful. However, a group of design schools that was set up during the project to share information is continuing.
**Project 11: Greater Nordic influence in the EU on harmful chemicals**

**Output title/type (report, guidance, website etc.)**

Report: “Labelling of chemicals in textiles: Nordic Textile Initiative”

Does the output provide any of the following (tick one or more as appropriate)?

- Tools
- Guidelines
- Cases
- **Policy recommendations/strategy ✔**
- **Research messages on hot issues ✔**

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assessment of different legal options for declaration and/or labelling the content of chemicals in textiles (including possibilities and challenges)</strong></td>
<td><strong>Stakeholder type</strong>: Policy makers</td>
</tr>
<tr>
<td><strong>Lists parallel activities to labelling (e.g. encourage non-toxic initiatives, connects green procurement into labelling standards etc.)</strong></td>
<td><strong>Stakeholder type</strong>: Policy makers</td>
</tr>
<tr>
<td>Description (of output – can include tools, guidelines etc.)</td>
<td>Interested stakeholders</td>
</tr>
<tr>
<td>------------------------------------------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>Lists substances possibly relevant for a declaration/label requirement. Shows information and knowledge gaps in all existing hazardous chemicals in textile</td>
<td>Stakeholder type</td>
</tr>
<tr>
<td>Textile producers</td>
<td>Developing countries</td>
</tr>
<tr>
<td>Consumers</td>
<td>EU/EEA, OECD</td>
</tr>
</tbody>
</table>

**Recommendations for adjustments to output**, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of a policy brief with the key findings and recommendations</td>
<td>2 days</td>
</tr>
</tbody>
</table>
Project 12: Common Nordic guideline regarding supply chain management of chemicals in textiles

Output title/type (report, guidance, website etc.)

On-line tool “Safer Textiles” - an on-line tool and an information portal created by Compliance House for the Nordic Council of Ministers under the project “Common Nordic guideline regarding supply chain management of chemicals in textiles”. [http://safertextiles.eu/](http://safertextiles.eu/)

Does the output provide any of the following (tick one or more as appropriate)?

- Tools ✔
- Guidelines ✔
- Cases
- Policy recommendations/strategy
- Research messages on hot issues

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stakeholder type</td>
<td>Country type</td>
</tr>
<tr>
<td>Collection of tools and guides about chemicals in textiles based on EU and national regulations in 5 Nordic countries (Iceland, Norway, Sweden, Finland and Denmark). The step-by-step chemical tool helps to identify and avoid restricted chemicals in textiles and garments (incl. REACH candidate Substances of Very High Concern (SVHC) and those not covered by Restricted Substances List (RSL)). The advanced guidance section provides a library of other relevant databases, collaborative initiatives, assessment tools, and environmental and product quality considerations.</td>
<td>Producers/brands</td>
</tr>
<tr>
<td>Buyers</td>
<td></td>
</tr>
<tr>
<td>Designers (especially within SMEs)</td>
<td></td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Follow-up on how the tool has been/is used and what are user experiences and recommendations/requirements for the database(s)</th>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 days</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Update tool according to legislation in selected OECD countries. Could begin with English speaking countries; US, Canada, Australia, New Zealand | 20 days including programming |
Project 13: Greener procurement of textiles in the Nordic healthcare sector

Output title/type (report, guidance, website etc.)

| Guidance document: “Greener textiles in hospitals: Guide to green procurement in the healthcare sector” English version |

Does the output provide any of the following (tick one or more as appropriate)

- Tools
- Guidelines ✔
- Cases
- Policy recommendations/strategy
- Research messages on hot issues

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stakeholder type</td>
<td>Country type</td>
</tr>
<tr>
<td>Procurers</td>
<td>All countries (but particularly EU)</td>
</tr>
<tr>
<td>Textile producers</td>
<td></td>
</tr>
<tr>
<td>Guidance and resources to assist/inspire hospital procurers in engaging in a greener procurement activities</td>
<td></td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output, or alternative outputs to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update the guidance with the latest EU GPP criteria published summer 2017, plus ecolabel updates as necessary</td>
<td>1 man day</td>
</tr>
</tbody>
</table>
Project 14: Stimulating Textile to Textile Recycling

Output title/type (report, guidance, website etc.)

Case Wallet: “Textile-to-textile recycling: Ten Nordic brands that are leading the way”
Report “Stimulating Textile-to-Textile Recycling”

Does the output provide any of the following (tick one or more as appropriate)

- Tools
- Guidelines
- Cases ✔
- Policy recommendations/strategy ✔
- Research messages on hot issues

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examples of brands and textile producers that are 1) using recycled materials in new products 2) designing products to be more easily recycled 3) developing full closed loops for their products (case wallet) An analysis of obstacles to engaging in these 3 activities and strategies that brands have engaged in to overcome these obstacles (report)</td>
<td>Stakeholder type</td>
</tr>
<tr>
<td></td>
<td>Brands Textile producers</td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output, or alternative outputs to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>The case wallet and report are sufficient for purpose and are up to date</td>
<td></td>
</tr>
</tbody>
</table>
Project 15: Promoting the supply of ecolabelled products

Output title/type (report, guidance, website etc.)

Technical report “Promoting the supply of textiles ecolabelled with the official ecolabel” (in Norwegian) with English Summary

Does the output provide any of the following (tick one or more as appropriate)

- Tools
- Guidelines
- Cases
- Policy recommendations/strategy
- Research messages on hot issues

More outputs are to follow later but this output is of little interest to stakeholders outside the Nordic region. Firstly it is in Norwegian and the English summary gives very little of interest, and secondly, the focus is on the Nordic Swan for textiles and leather and its current update process which is little known outside the region.

Future outputs may have relevance to stakeholders outside the region.
Project 16: EcoDesign Criteria for Textiles and Furniture

Output title/type (report, guidance, website etc.)

| Report: “Potential Ecodesign Requirements for Textiles and Furniture” |
| Policy brief: “Ecodesign Requirements for Textiles and Furniture: Eco design requirements that can be drawn up for non-energy-related products” |

Does the output provide any of the following (tick one or more as appropriate)

- Tools ✔
- Guidelines ✔
- Cases
- Policy recommendations/strategy
- Research messages on hot issues

Describe briefly and identify potentially interested stakeholders

<table>
<thead>
<tr>
<th>Description (of output – can include tools, guidelines etc.)</th>
<th>Interested stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stakeholder type</td>
<td>Country type</td>
</tr>
<tr>
<td>Proposed eco-design criteria for textiles</td>
<td>Policymakers</td>
</tr>
<tr>
<td>Overview of how to calculate impacts of adopted criteria</td>
<td>Textile producers</td>
</tr>
<tr>
<td></td>
<td>Designers</td>
</tr>
</tbody>
</table>

Recommendations for adjustments to output’, or alternative outputs (e.g. policy brief, film etc.) to increase relevance/overcome obstacles identified above

<table>
<thead>
<tr>
<th>The policy brief needs no changes – is sufficient for purpose as it is and is up to date</th>
<th>Estimated man days</th>
<th>Other investments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>
ANNEX 2: ARTICLE FOR DISSEMINATING NEWS OF THE NORDIC PROJECTS ON THE OPN

‘Nordic leadership in the green transition

The global fashion and textile sector is an engine of global growth and development with a €1.5 trillion turnover in 2016, and the employment of some 60 million people. At the same time the consumption of textiles is the most environmentally impacting European consumption area after mobility, food and housing and global consumption is forecast to increase from 62 million tonnes today to 102 million tonnes in 2030.

As such the sector is in dire need of more sustainable approaches across the value chain; in the way textiles are designed, produced, marketed and priced, how consumers gain access to and treat their clothing and through squeezing as much as possible utility out of products and the materials they contain via a circular economy.

In recent years the Nordic textile and fashion sector has become a leading force in this transition, not least by annually hosting the world’s first and largest Sustainable Fashion Summit (in Copenhagen). Individual Nordic companies within textile and fashion are also engaging in a range of green initiatives and practices.

The Nordic Council of Ministers (NCM), the intergovernmental forum for the Nordic governments, is also engaging in the Nordic transition. It has engaged in no less than 16 projects since 2012 with a focus on green improvements across the value chain. A number of these were projects were developed under the umbrella of a Nordic Action Plan for Sustainable Fashion and Textiles, Well-dressed in a Clean Environment that was adopted in 2015.

The NCM projects have a wide range of focus and many different forms of outputs and many of these are just as relevant in other countries as they are in the Nordics.

6 sustainable fibres
6 sustainable manufacture
Greener distribution, Access/retail

1. Textiles flows in Nordics
2. Waste prevention indicators
3. EPR and new business models
4. Nordic strategy for reuse / recycling
5. Nordic Commitment
6. LCA of treatment options
7. Impacts of exports

More sustainable fibres
More sustainable manufacture
Sustainable Design
Capturing materials for new products
Exending active lifetime
Greener distribution, Access/retail

10. Sustainable design education platform
16. Ecodesign criteria
11. Chemical labelling/declarations
13. Green procurement in healthcare textiles
15. Promoting ecolabels in textiles
6. Environmental management in Tirupur
12. Chemical management in supply chains


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5 Fashion United, 2016
6 EEA, 2013; JRC, 2014; Tukker et al 2006
7 BCG and GFA, 2017
Increasing collection of post-consumer textiles

For instance, much focus has been given to the post-consumer stage of the value chain; finding out what happens to the 365 000 tonnes of textiles that Nordic citizens and institutions purchase each year when the first user no longer wants them and how this can be improved. This is a problem faced in all parts of the world.

It was revealed that on average two-thirds of post-consumer Nordic textiles end in mixed waste destined for incineration, or worse, landfill. Some countries are better than others - in Denmark 46% of textiles are collected separately from consumers for reuse and recycling, but the number is only 22% in Sweden.

14 key policy recommendations were made for increasing separate collection including the development of ambitious and binding targets for collection, government financial support for collection, reuse and recycling and funding the development of automated sorting technologies and chemical recycling processes for non-reusable textiles.

It seems Sweden has been most advanced in implementing some of these principles. Collection targets and a mandatory Extended Producer Responsibility scheme for textiles have been put before government by the Swedish Ministry of Environment. Under the EPR, brands and textile producers would financially support collection, reuse and recycling of textiles. Moreover, SIPtex, a prototype automated sorting system for non-reusable textiles waste has been under trial for more than a year in Sweden and is now ready for upscaling.

Textile-to-textile recycling as the missing link

The SIPtex technology is intended to tackle one of the key problems facing circularity in textiles. While good or medium quality used textiles can gain a good price on global markets, there is no economic value in non-reusable textiles. Any recycling that does happen piggybacks on reuse markets, and as countries are making efforts to increase collection rates the increased amounts of low quality textiles is placing an increasing economic burden on collectors. There is general agreement that textile-to-textile recycling needs to be adopted at industrial scale to unlock this impasse. And this requires both new technology and engagement from brands and producers. One NCM project communicated with 10 Nordic brands – large and small - that are already engaging in use of recycled materials and design for ease of recycling to find out what challenges they experienced and how they overcame these. The result is a Case Wallet and report that can inspire brands anywhere in the world to set out on this pathway.

Brands must be careful, however, not to prioritise recycling over reuse and extended lifetimes. Important research by NCM has shown that reuse is always preferable to recycling, regardless of where in the world the reuse takes place. A further NCM study looked more closely at export markets for used textiles including country visits and studies in Poland, Malawi and Pakistan to establish whether the 100 000 tonnes of textiles exported each year from the Nordics have a net positive or negative social and environmental effect. The study found generally positive effects but made recommendations to Nordic collectors and governments that could increase the positive and remove the negative aspects of these exports.

The Nordic Textile Commitment

One of the recommendations was for collectors to adopt codes of conducts that would also be enforced on their downstream partners to ensure environmental and social responsibility along the value chain for used textiles. In this context, NCM has developed and trialled a third-party certification system for collectors that includes a wide range of criteria. These concern how textiles are collected and subsequently handled, working conditions along the value chain and transparency over how the money raised through sales of textiles is used. The certification system – known as the Nordic Textile Reuse and Recycling Commitment - is now ready for full-scale implementation and can potentially be used anywhere
in the world. Municipalities, who are increasingly concerned about transparency, will be able to set certification as a criterion in tenders for textile collection on public ground.

**Tools for improving design and managing supply chains**

The NCM projects have considered other issues than the post-consumer phase of the value chain. There are also a range of projects that have looked at design, production and consumption phases. Proposals for a set of ecodesign criteria for textiles have been developed, principally as input to the EU Ecodesign Directive but the proposal can also inspire ecodesign policy or branch standards elsewhere in the world. An online platform for Nordic sustainable design schools that allows them to communicate with prospective students and to share sustainable design information, emerged from another project. And that isn’t all. Purchasers in especially small brands have gained an online tool commissioned by NCM that assists them in identifying and managing potential harmful chemicals in their supply chains.

**Spreading Nordic knowledge further afield**

The textile industry is a global industry, and it has been critical for NCM and the consultants and other organisations carrying out these studies to take a global perspective. Much of what has been developed through the projects – publications, guidelines and tools – has relevance outside the Nordic region. This work deserves to be spread to help build capacity in other regions.

As a first step in disseminating these works, project summaries for 15 of the projects and links to their main outputs have been uploaded to the One Planet Network online platform. The OPN is tasked with catalysing the implementation of the UN’s 10 Year Framework of Programmes for Sustainable Consumption and Production – also called the 10YFP – and much of its work is assisted through its online platform. An overview can be seen [here](#).

This is only seen as a first stage. The longer term plan is to create a Sustainable Textile and Fashion Hub hosted by the Programme on Sustainable Lifestyles and Education on the OPN site. The vision is to create a hub with the Nordic resources at its core but which quickly expands to include relevant resources from around the world. Stakeholders will be encouraged to upload their own relevant resources and initiatives and link them to relevant parts of the textile value chain. NCM hope that the Hub will act as a key catalyser and gathering point for policy makers and stakeholders interested in pushing a green transition in the global value chain of textiles and fashion.’
ANNEX 3: BRIEFING FOR POTENTIAL FUNDERS OF THE HUB

Vision

Our Vision is for a Sustainable Textile and Fashion Hub hosted by the Programme on Sustainable Lifestyles and Education on the One Planet Network internet platform. The site guides policy makers and key stakeholders in the global value chain of textiles and fashion to resources of direct relevance. Stakeholders are also encouraged to upload their own resources and initiatives. The Hub begins with relevant Nordic textile resources at its core but quickly expands to include relevant resources from around the world. This accelerates the number of visits to the site and increases the momentum of the green transition within the sector. Meanwhile, the Hub strengthens the Nordic region’s profile as a centre of thinking and action in sustainable textiles and fashion.

Enabling the green transition

The fashion and textile sector is an engine of global growth and development with a €1.5 trillion turnover in 2016, and employing some 60 million people but at the same time has a high resource use, environmental and health impact. Reducing the environmental impact of the textile and fashion value chain forms an immediate challenge for society.

The need for this green transition has risen up the agenda of both governments in many parts of the world and within the textile industry itself. The industry can be characterized by high willingness to exchange and learn from experiences in order to accelerate this transition. A range of forums gather different stakeholders to different themes and stakeholders join forces in shorter or longer term collaborations. However, a wider scope open forum for sharing best practice is still missing.

The Nordic Council of Ministers has developed a detailed design for a Sustainable Textiles and Fashion Hub that can fill this gap.

Fostering collaboration and change

The Sustainable Textiles and Fashion Hub would create a platform where all stakeholder groups can contribute and share their initiatives, actions and research activities related to sustainable textile production and consumption. The objective of the collected best practice examples is fourfold:

1. To inspire and encourage stakeholders to take action;
2. To speed up the transition by learning from each other’s experiences, not having to reinvent the wheel;
3. To connect stakeholders within and between different stakeholder groups and initiate collaboration; and
4. To highlight the Nordic region as a centre of the green transition

Building upon the One Planet Network platform

The One Planet Network is an established, multi-stakeholder partnership for sustainable development. It was formed to implement the 10-Year Framework of Programmes on Sustainable Consumption and Production. The OPN’s internet platform enjoys both high creditability and a wide user network of decision makers, policy makers and research institutions. The Sustainable Textiles and Fashion Hub would be implemented within the OPN platform as a stand-alone sharing platform for textiles stakeholders but making use of the sites existing format and structure.
By actively promoting it among stakeholders directly engaged in the textile value chain (including e.g. designers, brands, textile collectors, recyclers and consumers) a unique platform for information exchange for sustainable textile production and consumption accessible for all stakeholder groups is created.

**How would the Hub work?**

On the front page of the Hub there would be a visual representation of a sustainable value chain for textiles and connected stakeholders. By clicking on the various elements of this a user would come to a page with a list of projects/initiatives relevant to this part of the chain/this stakeholder. The user will also be able to use geographic searches.

Any registered users of the Hub would be able to upload summaries and full outputs of their own initiatives and projects. Uploaded resources would be linked to the value chain, stakeholders, geographic regions etc. A Hub manager (can be a consultant or employee of OPN or a funder) will be commissioned with responsibility for approving/editing uploaded content, maintaining the site and sending out newsletters to keep users up to date.

All uploaded resources would include contact details for the uploader. Registered users would also have access to contact information of all other registered users, enabling networking opportunities.

**What would the Hub cost?**

The Hub has been designed to fit into the existing structure of the OPN as far as possible to minimise programming costs. We estimate a cost for the initial setting up of the Sustainable Textile Hub at **35 000 EURO**. This work includes programming, graphic work, development of information pages, planning of work with the owners of the OPN site and other project management.

In addition, we estimate ongoing maintenance costs for updates, registration of users, approving/editing new uploads, sending regular newsletters to registered users and presenting at global events at **20 000 EURO per year**.
ANNEX 4: DESIGN PROPOSAL OF THE SUSTAINABLE TEXTILES AND FASHION HUB
The central hub-page would be located on the Sustainable Lifestyles and Education programme, similar to the Compras Sostinibles hub under the SPP programme http://www.oneplanetnetwork.org/
A central hub-page is created using the same template as ‘compras sostenibles’. The template content will be adjusted. [http://www.oneplanetnetwork.org/compras-sostenibles](http://www.oneplanetnetwork.org/compras-sostenibles)

(Using this template a new filter for ‘Sustainable textiles’ will be built into the existing OPN database)
Content suggestion

The central hub-page will include a short introduction to the site and an interactive visualisation of the sustainable value chain (see later).

Proposed Tabs
- Home
- About the hub
- Share your experiences
- Library
- Initiatives/projects
The value chain and stakeholder diagram will be included on the front page together with a short text on how to use this site. The value chain diagram will be combined/integrated with the existing search function enabling the ‘click on’ function on the diagram steps, illustrating relevant initiatives for the given step and on the stakeholders to connect to resources relevant to them.

This is the part of the development plan that needs the most IT programming, which will need to be agreed with the project owners.
One will be able to apply further filters to the findings that appear after clicking on the interactive diagram.

Short summaries of all resources that fit the search filters will be revealed, exactly as happens under the OPN Resources and Project/Initiative databases. Clicking on these will take the user to the full project summary and links to project outputs.
We suggest to include 5 clickable tabs on the front page with following content.

<table>
<thead>
<tr>
<th>Tab</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td>The ‘home page’ will contain the value chain diagram and a concise description on how to use this hub.</td>
</tr>
<tr>
<td>About the hub</td>
<td>A text on information about this Hub. When, how and why has this hub been developed etc.</td>
</tr>
<tr>
<td>Share your experiences</td>
<td>Step by step guide. This guide already exists on OPN when uploading to existing Resource and Project/Initiative templates.</td>
</tr>
<tr>
<td>Library</td>
<td>Here the different resources on the Hub can be searched applying different filters.</td>
</tr>
<tr>
<td>Initiatives</td>
<td>Here the different initiatives on the ‘sustainable Textiles’ hub can be searched applying different filters.</td>
</tr>
</tbody>
</table>

We suggest to use the existing guide and not to develop a new one.
The existing step-by-step guides for Resources and Projects/Initiatives can be used for sharing experiences regarding sustainable textiles. We propose that the Projects/Initiatives database is prioritised.
Resources library

Here the different resources (reports etc.) can be searched applying different filters.

**Proposed filters:**
- Geographic coverage
- Type of stakeholder
- Region
- Country
- Step in the value chain
- Language
- Type of document
- Year of publication

These two need to be created
Template for resources

This is the template format for resources (documents). This format is rather simple. The template mainly contains a short summary of the document and access to download.

Trust Fund Report 2017

Published in 2018 by One Planet network (Other)
Type of document: Best practices, case studies

This report provides an overview of the progress achieved by the Trust Fund of the 10-Year Framework of Programme on Sustainable Consumption and Production (10YFP) in the first five years of its existence (2012-2017) – Phase 1.
Initiatives/Projects library

Here the different initiatives/projects can be searched applying different filters.

Filters:
- Geographic coverage
- Type of stakeholder
- Region
- Country
- Step in the value chain
- Language
- Type of document
- Year of publication

These two need to be created
Template for initiatives

This is the template for initiatives. This template is more detailed and several documents can be attached. Text is added under the headlines:

- Objectives
- Activities
- Impacts
- How to get involved?

All the Nordic textiles projects have been uploaded to this database

Green Sustainable Consumption Week

The “Green Sustainable Consumption Week” (hereafter, SCW) is a non-profit public activity initiated by China Chain Store & Franchise Association, in order to promote the concepts of sustainable consumption consumer information, certified sustainable products, green life styles, and environmental awareness through multiple channels to China’s public society by engaging consumers in various activities organized by partner retailers, enterprises, and organisations.

Objectives

1. In response to the Party’s and Country’s call of Green Consumption, implement the Guidance on Green Consumption issued by ten ministries and commissions of the national development and Reform Commission, the Central Propaganda Department and the Ministry of Commerce.
2. To help consumers to setup scientific, healthy and environment-friendly consumption behaviours, such as reducing food waste.
3. To help make product sustainability information available to consumers, and help customer to recognize the sustainability information of products.
4. To help consumers establish an understanding of the contribution and impact of individual green life on the environment, society and national low carbon development.
New filters to be included under both libraries

<table>
<thead>
<tr>
<th>Type of stakeholder</th>
<th>Step in the value chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Textile producer</td>
<td>Sustainable design</td>
</tr>
<tr>
<td>Designer</td>
<td>More sustainable fibres</td>
</tr>
<tr>
<td>Brand/retailers</td>
<td>More sustainable manufacture</td>
</tr>
<tr>
<td>Policymakers</td>
<td>Greener distribution, access/retail</td>
</tr>
<tr>
<td>Consumer/civil society</td>
<td>Extending active lifetime</td>
</tr>
<tr>
<td>Procurers</td>
<td>Capturing materials for new products</td>
</tr>
<tr>
<td>Textile collectors/charities</td>
<td></td>
</tr>
<tr>
<td>Sorters/recyclers</td>
<td></td>
</tr>
<tr>
<td>Academia/scientific</td>
<td></td>
</tr>
</tbody>
</table>