

Batumi Initiative on Green Economy (BIG-E)
Actions by Sweden

Country: Sweden, Ministry of Enterprise

Title:

Strategy and Action Plan for New-industrialization

Focus area 2, 4, 5, 6, 7, 8: Promote the internalization of negative externalities and the sustainable use of natural capital; Shift consumer behaviours towards sustainable consumption patterns; Develop clean physical capital for sustainable production patterns; Promote green and fair trade; Increase green and decent jobs, while developing the necessary human capital and Improve access to services, healthy living and well-being

Description of the action: The Swedish Government has presented a Strategy on New-industrialization with the purpose to react to the global challenges and at the same time create opportunities for business development and new jobs.

Vision: Sweden will be a world leader in the innovative and sustainable industrial production of goods and services.

Objective: The industrial sector throughout Sweden is to increase its competitiveness and participation, primarily in the high-quality segments of global value chains.

The Strategy, SMART INDUSTRIES, includes 4 focus areas:

Industry 4.0 – Exploit the potential of digitalization

Sustainable production – Improve the industrial sector's capacity for sustainable and resource-efficient production

Industrial skills boost – Ensure the supply of skills to the industrial sector

Test bed Sweden – Create attractive innovation environments.

Industry 4.0: Smart industrial companies in Swedish industry are to be leaders in digital development. The implementation will therefore focus on the following:

- Stimulate the development, deployment and use of digital technologies that have the highest potential to lead the industry's transformation.
- Take advantage of the digitalization wide opportunities regardless of company size, and geographic location.
- Encourage new business- and organizational models to utilize the potential of the new technology.
- Meeting the needs for new knowledge that the digital revolution brings.
- Adapt framework and infrastructure for the digital age.

Sustainable Production: Increased resource efficiency, environmental protection and more sustainable production should contribute to the industry's value creation, job creation and competitiveness across the country. The implementation will therefore focus on the following

- Develop new or improved existing technologies, goods and services with respect to significantly reduced emissions, phasing out of particularly hazardous substances, higher energy and resource efficiency, higher reusability and recyclability, as well as higher environmental performance.
- Unlocking the potential of new digital and other technologies for the transition to a fossil free and the circular economy.
- Encourage business models that create values based on circular economy.
- Ensure that regulations and other instruments will make it easier to produce resource-efficient and environment-friendly and provide a sustainable supply of raw materials.

Competence: Competence system at local, regional and national level to meet the industry's needs and promote long-term development. The implementation will therefore focus on the following:

- Increasing interest in science and technology and to increase industry relevant programs of education attractiveness.
- Improve matching of the industry's need of labor and education at all educational levels.
- Ensuring that the education system provides students not only with the right skills but also with the right competence, in terms of the abilities required in the society and for conversion to a digitized and circular economy.
- Improve conditions for lifelong learning.
- Promoting change of career and mobility between universities and business.

Test beds: Sweden should be a leader in research in areas that contribute to strengthening the industrial production in Sweden. The implementation will therefore focus on the following:

- Align research and innovation efforts on areas that have particular potential to contribute to new-industrialization and long-term competitiveness.
- Open up the public sector to be the industry test bed to solve societal challenges in close collaboration with stakeholders at local and regional level.
- Increase the use of innovation-friendly procurement.
- Promote cooperation between universities and industrial research and develop the institutions sector.
- Making it more attractive for researchers to work in Sweden.
- Making it more attractive for companies to invest in and conduct R & D activities in Sweden.

Action's time frame/milestones, as appropriate: The Strategy was presented in end of 2015. An Action Plan is now being developed. The Strategy and Action Plan will continuously be revised.

Type of action: The implementation will involve a number of actions and tools including regulation, education and research initiatives, public procurement, opening up the public sector for example to provide test beds and open data. It will require the active participation of industry and industry-related service sector. The regional level has a crucial role to play in the implementation. More concrete measures will be developed in an Action Plan.

In support for the work, the Government has commissioned a specific council consisting of four members with broad experience and a good understanding of the industry preconditions

and needs. The Council will monitor implementation of the strategy and Action Plan and regularly provide recommendations on the way forward.

The Enterprise and Innovations Minister will continue the industrial dialogues with representatives of industry and the services sectors as a forum to discuss development and evaluation of the Government's work.

Economic sectors: All industrial sectors

Reference instruments and sources, as appropriate: -----

Expected co-benefits and impact of the outcome: The purpose with the strategy is to strengthen Swedish business on a global market, create new jobs and at the same time reduce the negative impact on the environment and the climate. This will be achieved through cooperation, integration, development of tools, new business models etc. more efficient use of nature resources, a circular economy where material and products are reused, material flows are toxic free and waste is used as a resource. This will allow Swedish business to compete with sustainable products and services on a global market and at the same time reduce its internal costs.

SDGs target(s) that the action may contribute to implement: (in particular) 1, 7, 8, 9, 12, 13, 14, 15

Implementation of Environmental Performance Review (EPR) recommendations, as appropriate: -----

Objectively verifiable indicators, as appropriate: -----

Partners: Other Ministries and relevant agencies, business, universities and research institutes, business.

Contact point:
Mr Per Stagnell
Swedish Ministry of Enterprise
E-mail: per.stagnell@gov.se