



Schweizerische Eidgenossenschaft
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Bundesamt für Raumentwicklung ARE
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Switzerland's Sustainable Development Strategy – The Role of Innovation

Till Berger, Coordinator Sustainable Development Strategy

Committee on Innovation, Competitiveness and Public-Private Partnerships

23 - 25 May 2016

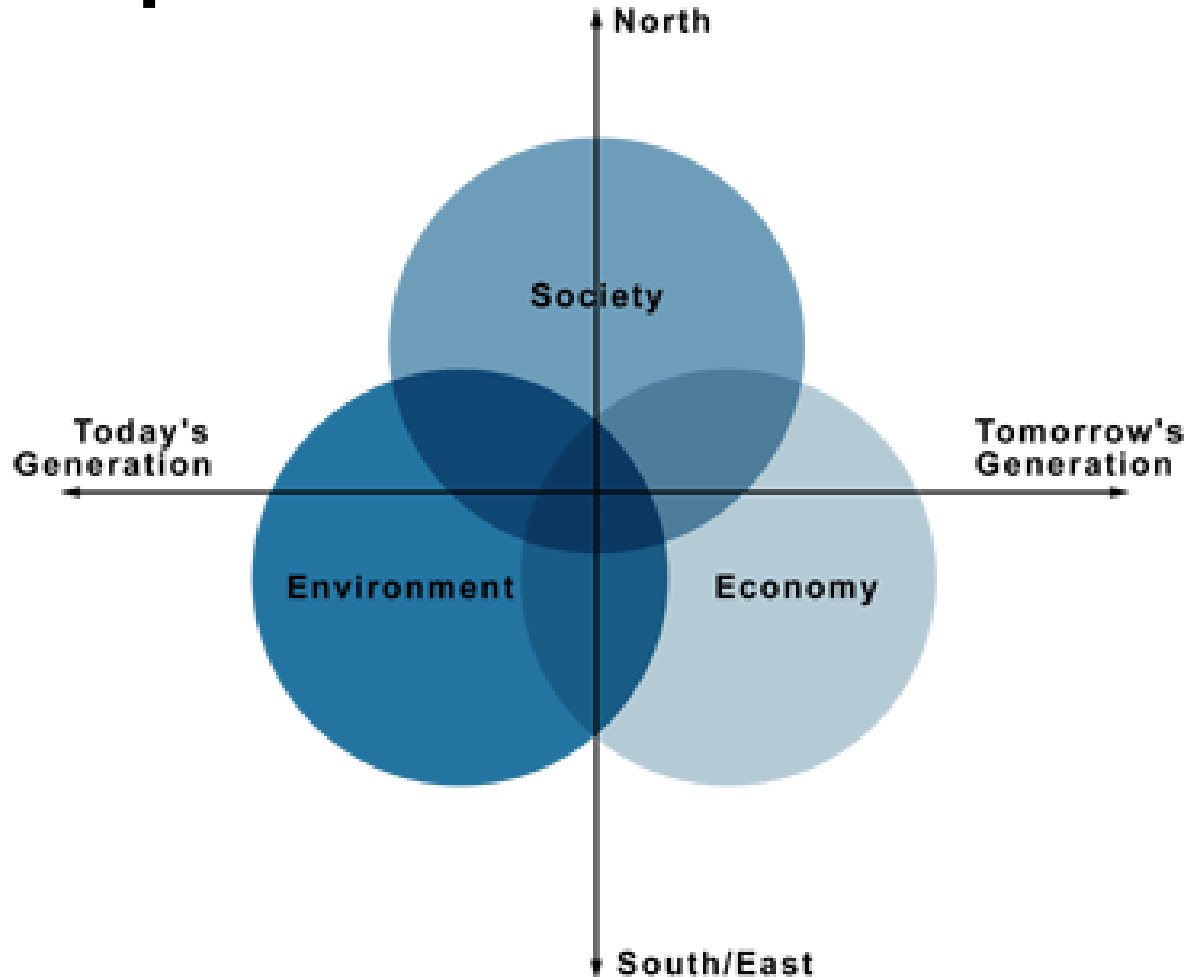
Palais des Nations, Geneva, Switzerland



Sustainable Development Strategy



Understanding of Sustainable Development





Federal Policy on Sustainable Development: Stages

- 1992 Swiss participation in Earth Summit at Rio, Signing of Agenda 21
- 1993 Appointment of Inter-departmental Sustainable Development Committee (ISDC)
- 1997 1st Strategy for Sustainable Development
- 1999 Anchoring SD in new Federal Constitution
- 2002 2nd Strategy for Sustainable Development
- 2008 3rd Strategy for Sustainable Development
- 2012 4th Strategy for Sustainable Development
- 2015 Adoption of the 2030 Agenda at the United Nations Sustainable Development Summit
- 2016 5th Strategy for Sustainable Development



Constitution of the Swiss Confederation

Preamble

[...] conscious of their common achievements and their responsibility towards future generations [...]

Art. 2 Aims [of the Swiss Confederation]

² It [the Swiss Confederation] shall promote the common welfare, sustainable development, internal cohesion and cultural diversity of the country.

⁴ It is committed to the long term preservation of natural resources and to a just and peaceful international order.

Art. 73 Sustainable development

The Confederation and the Cantons shall endeavour to achieve a balanced and sustainable relationship between nature and its capacity to renew itself and the demands placed on it by the population.



THE GLOBAL GOALS

For Sustainable Development





Sustainable Development Strategy 2016-2019



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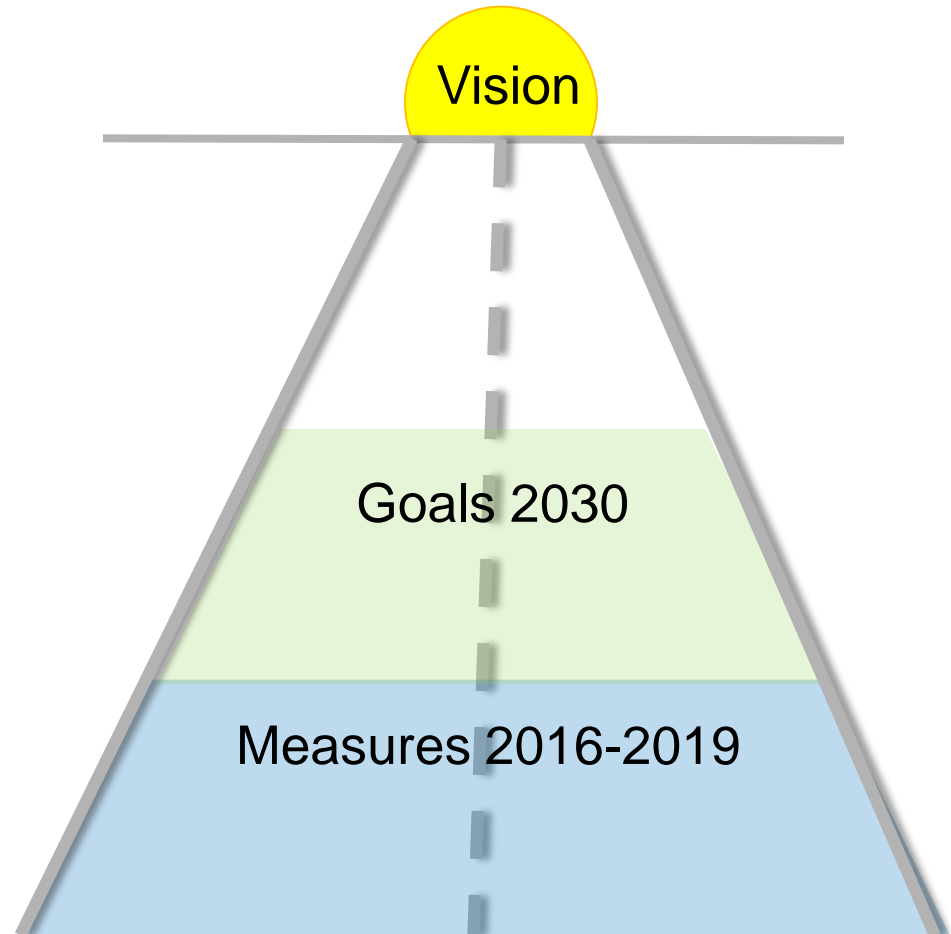
SUSTAINABLE DEVELOPMENT STRATEGY 2016-2019





The long-term view

- The vision defines the long-term perspective
- The goals define priorities for the next generation
- The measures define the priorities for the next legislative period





Monitoring of Sustainable Development

MONET Indicator System

- 75 indicators
- 17 key indicators
- 12 indicators «global dimension of SD»

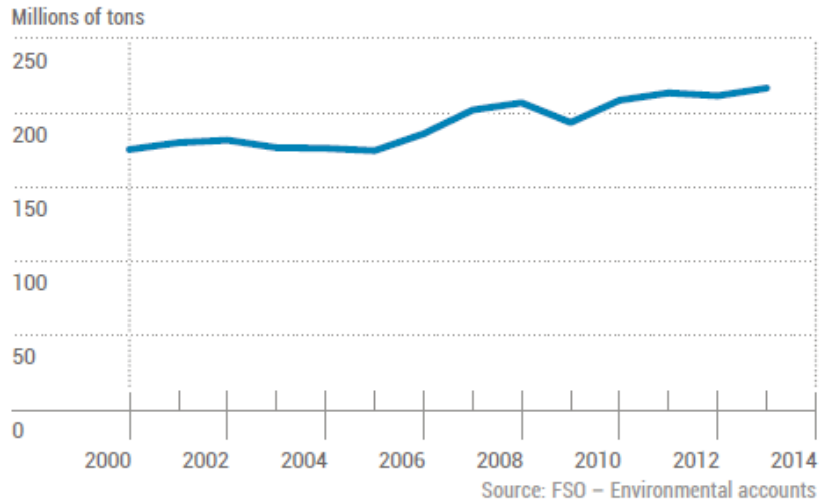




Indicators: Example

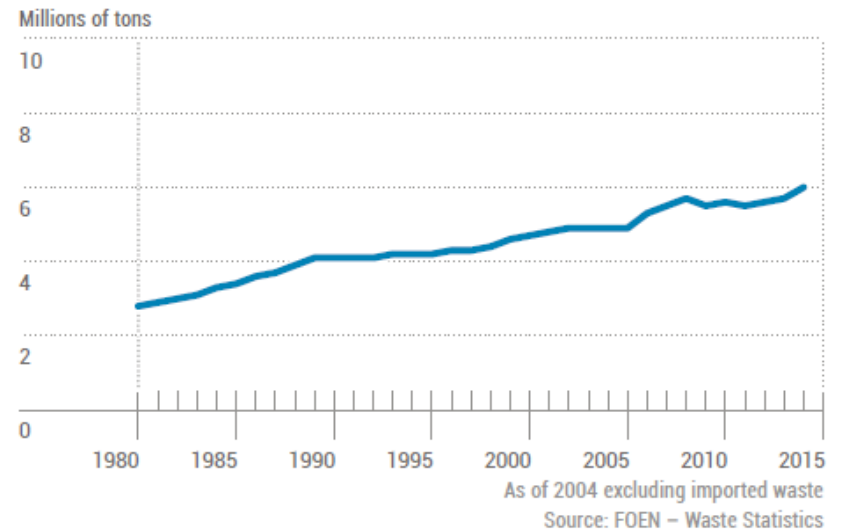
MATERIALS FOOTPRINT OF IMPORTS

Import in raw material equivalents (consideration of all materials used during the production processes and transport of goods and services until they cross the border)



TOTAL MUNICIPAL WASTE PRODUCED

Total amount of household waste and waste of similar composition from industry and commerce, including separately collected waste





The Role of Innovation



Promotion of Education, Research and Innovation

- Goal of the Federal Council: Switzerland considers education, research and innovation to be a top priority.
- 26 Billion CHF for the period of 2017–2020:
 - Institutions for promotion of research
 - Kommission for Technology and Innovation
 - Financial support of universities and higher education institutions.
 - ...



Closing Material Cycles





Closing Material Cycles

Goal: Use is made of the economic and technical potential for closing materials cycles.



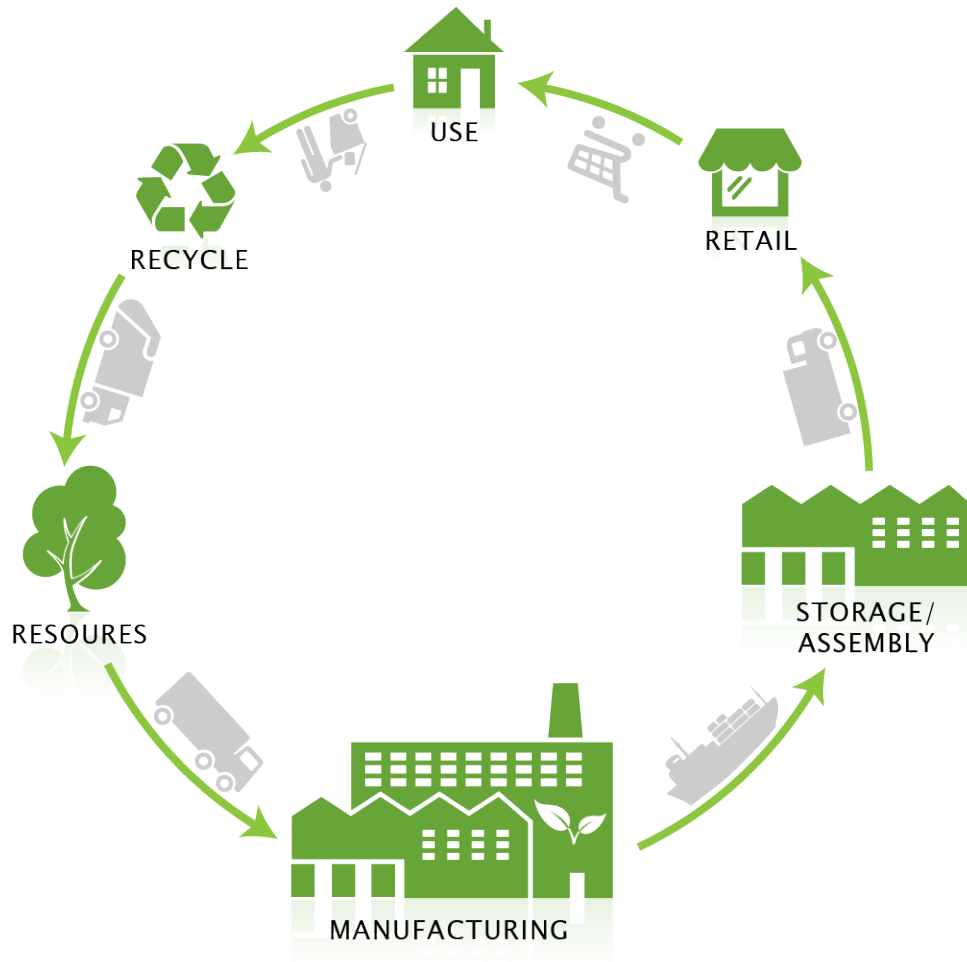


Closing material Cycles

- Create holistic view of material and product life cycles for political and business decision. Points of focus: waste prevention, recycling of waste and structural elements from the construction industry, metals recycling.
 - Law: Ordinance on the Prevention and Disposal of Waste
 - Innovation: Resource Trialogue 2030, a forum aimed at transforming today's throwaway economy into a resource-based economy
 - Information: Reffnet.ch network for a resource-efficient Switzerland



Ecodesign





Ecodesign



Goal: Both consumer and capital goods are produced in a resource-efficient, socially and environmentally-friendly way, with no impact on health. Consumer durables are designed to be low-consumption, long-lasting, easy to repair and recyclable.



Ecodesign

- Innovation: Promotion of flagship projects: product designs that reduce environmental impact at all stages of the product life cycle
- Innovation: Expand the knowledge base about green economies by the new Swiss National Science Foundation National Research Programme on “Sustainable Economy”
 - Green economy
 - Closing materials cycles
 - Ecodesign
 - Collaborative economy
 - ...



Internalization of External Costs





Internalization of External Costs



Goal: Mechanisms to internalise negative externalities into market prices have been developed, and implemented where this is possible and makes sense.





Internalization of External Costs

- Measures: Heavy vehicle sector: external effects such as environmental and accident costs are internalised via the distance-related Heavy Vehicle Fee (HVF)
- Measures: The CO₂ levy, an incentive charge, increases the costs of fossil fuels such as heating oil and natural gas CO₂ levy.
- Measure: From 2021 onwards implementation of a climate and energy incentive system of climate and electricity levies
- Innovation: Create a methodological foundation on which to value and monetarise these different effects.
- Innovation: Improving the methodological basis for environmental assessments of products and raw materials



Structural change and competitiveness of mountain and rural areas





Structural change and competitiveness of mountain and rural areas



Goal: Spatial development is polycentric. Regional strengths are exploited.



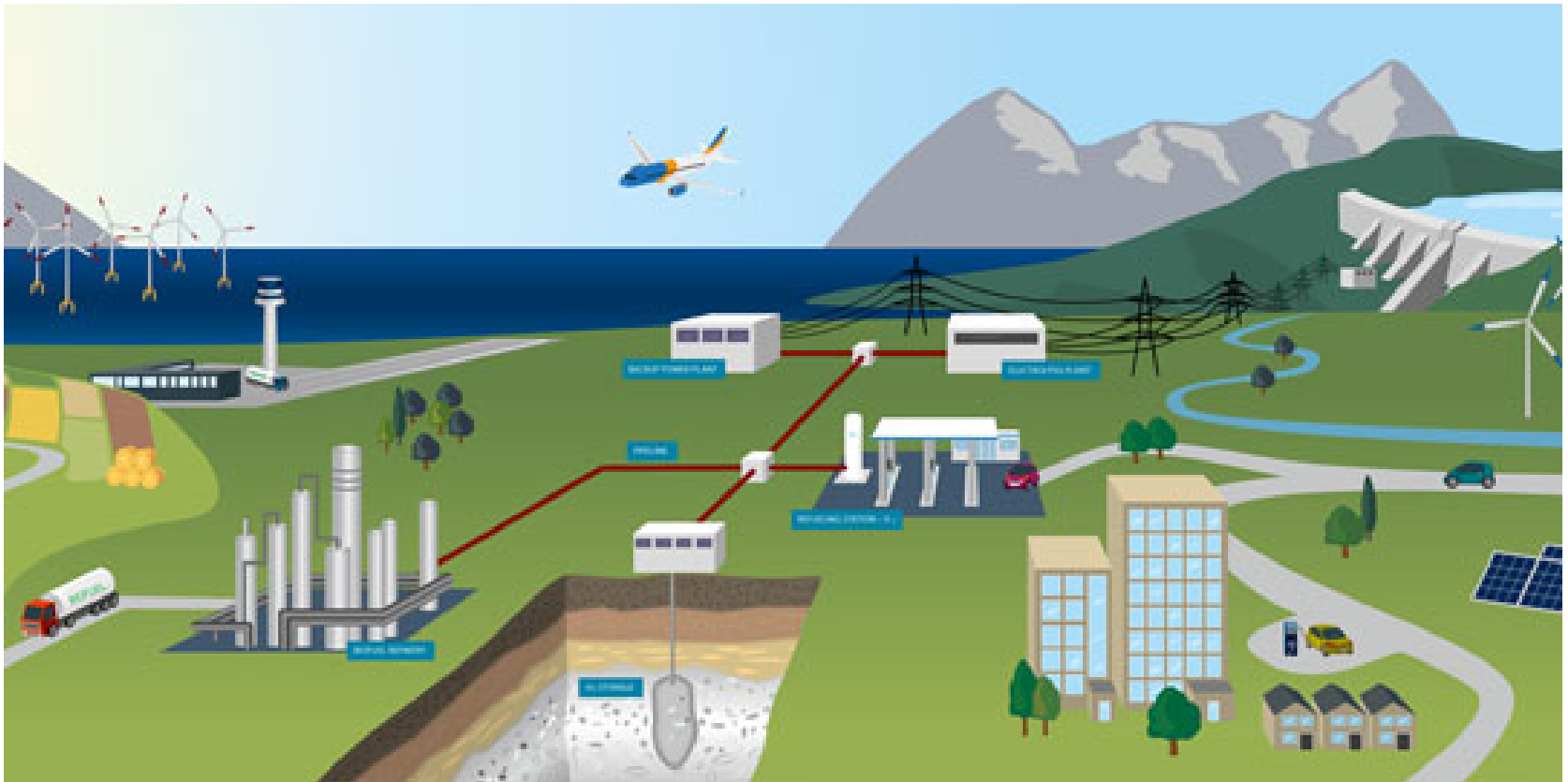


Structural change and competitiveness of mountain and rural areas

- Innovation: New Regional Policy: New programme 2016–2023 to support innovation in these regions. Focus on SMEs:
 - Coaching to discover innovation potentials
 - Building up networks and create contacts to potential investors
 - Supporting the realisation of innovative projects.

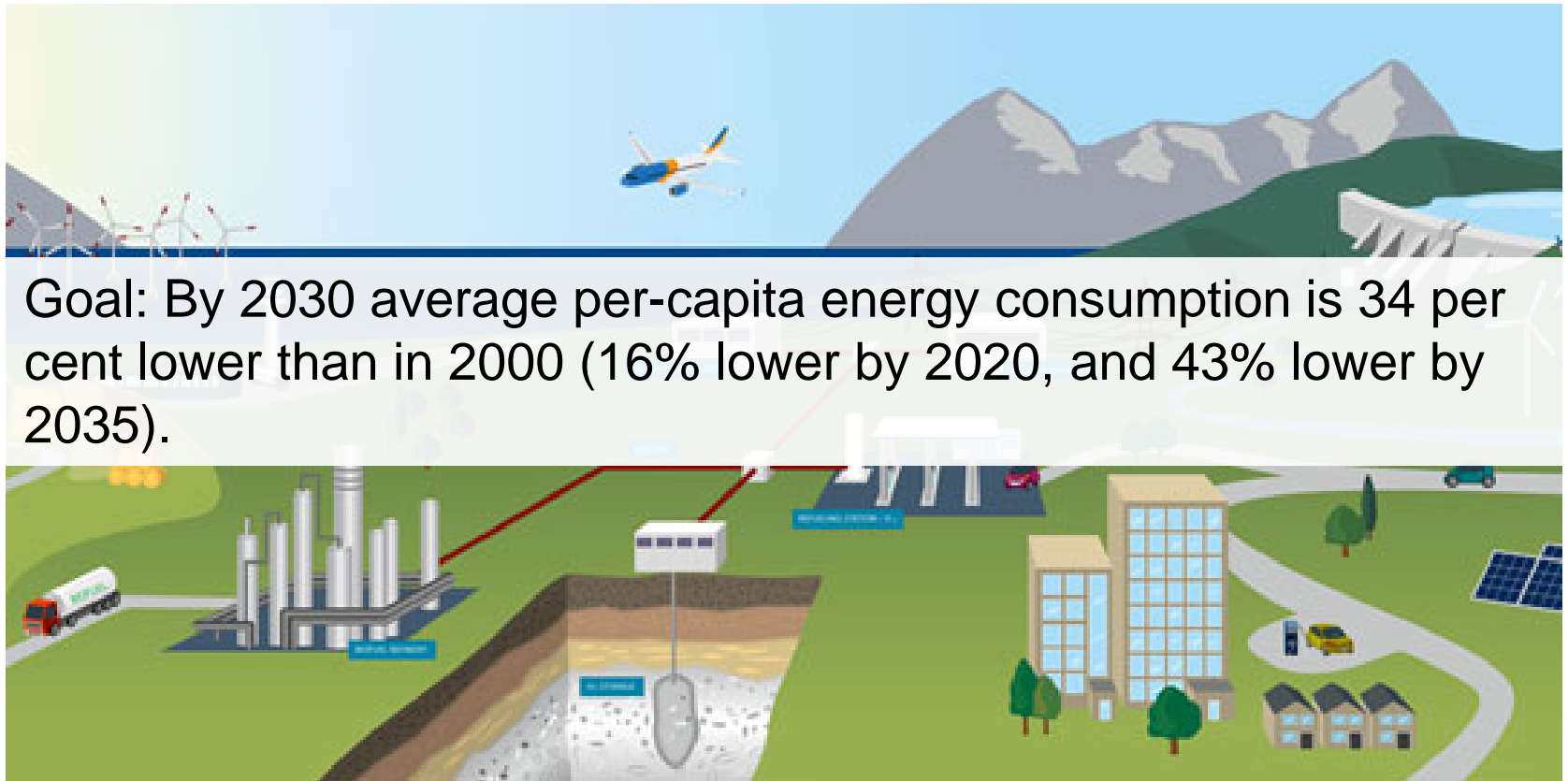


Changing the Energy System





Changing the Energy System





Changing the Energy System

- Innovation: finance and manage the creation of research networks between higher education institutions, the Swiss Competence Centres for Energy Research (SCCERs).
 - Eight SCCERs in seven action areas.
 - Solutions to the technical, social and political challenges arising as a result of the energy revolution.
 - From basic research through applied R&D to legal, regulatory and behavioural aspects
- Innovation: CTI: Additional financial means for research and development projects in the field of energy.



Urban densification





Urban densification



Goal: New housing is created by means of high-quality inward development. There are sufficient open spaces that are geared to residents' needs.





Urban Densification

- Innovation: The “Housing Research Programme” addresses current issues, such as the efficient use of living space, to deliver solutions to today's challenges.
- Innovation: The “Sustainable Spatial Planning Pilot Scheme” for 2014-18 supports innovative projects which engage simultaneously in high-quality inward urban development and the development of open spaces within agglomerations.
- Support: The “Community Cohesion Project” supports cities and communes with projects for sustainable neighbourhood development in areas under particular pressure. The programme incorporates objectives for spatial development, integration policy, and the promotion of housing.



Thank you for you attention!

For further information:

www.are.admin.ch/sustainabledevelopment

Download of the strategy:

www.are.admin.ch/ssd