



Ministerie van Infrastructuur
en Waterstaat

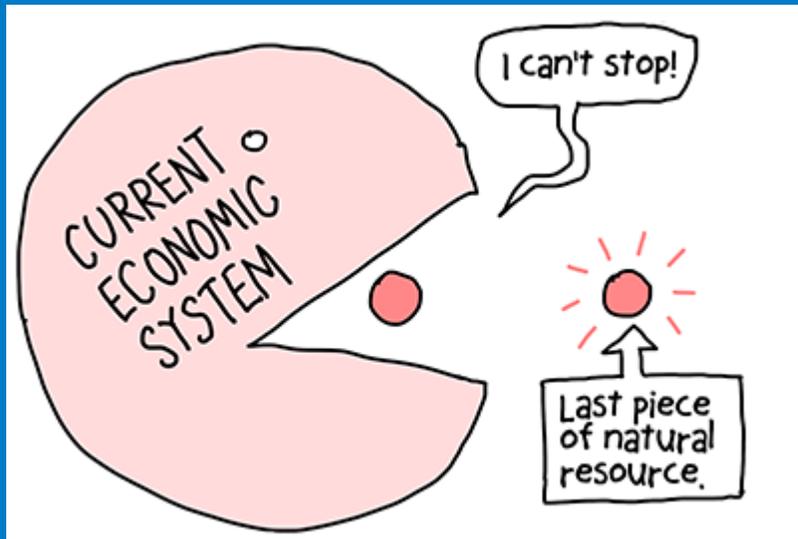
Circular economy and transport of Dangerous Goods

Sustainable transport in a
healthy and safe society



ISSUES TO DEAL WITH

- 1 What is circular economy
- 2 SDG's and circular economy
- 3 What can we expect?
- 4 Case: the Netherlands
- 5 Challenges and dilemma's



1

The circular economy is a systems solution framework that tackles global challenges like climate change, biodiversity loss, waste, and pollution.

- Eliminate waste and pollution
- Circulate products and materials (at their highest value)
- Regenerate nature





2

Sustainable transport for the 21st century is safe, high-quality, accessible and affordable to all, ecologically sound, economically viable, and a positive contributor to local, national and global sustainable development

- Safe
- Secure
- Affordable
- Accessible
- High quality
- Environmental friendly
- Economical viable

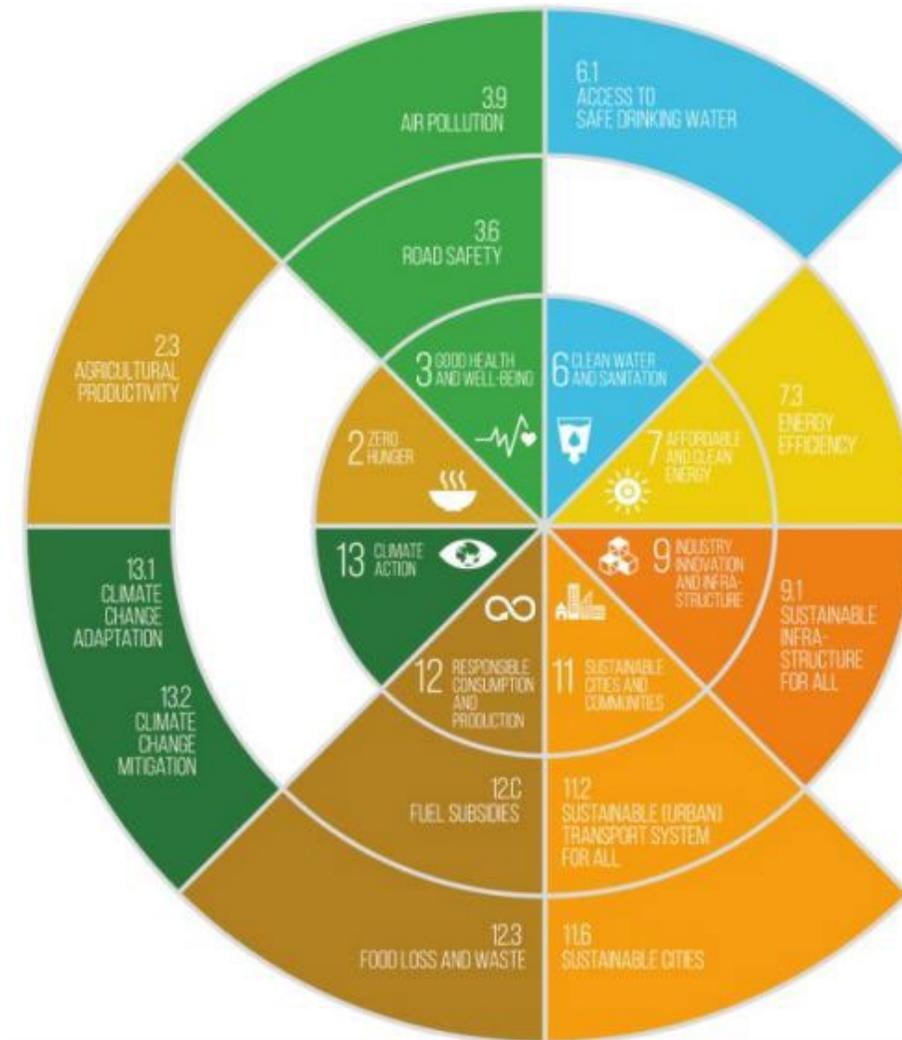
SUSTAINABLE DEVELOPMENT GOALS

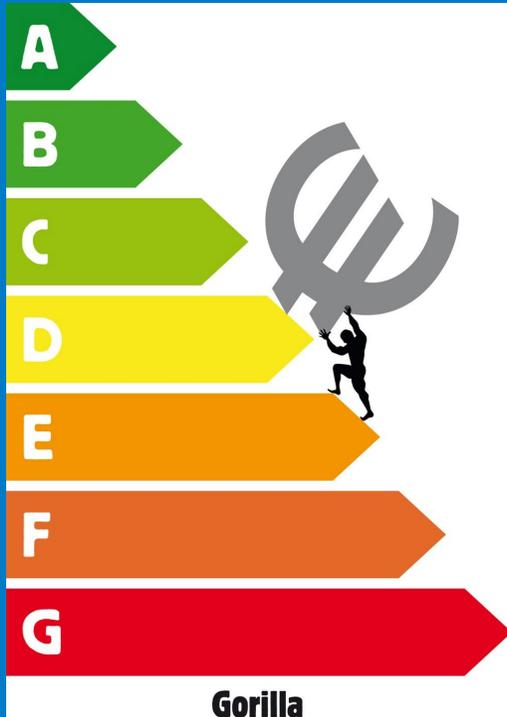




SDG's and transport

- Zero hunger
- Good health and well-being
- Clean water and sanitation
- Affordable and clean energy
- Industry: innovation and infrastructure
- Sustainable cities and communities
- Responsible consumption and production
- Climate action





3

What can we expect?

- Energy-transition
 - Other streams, products?
 - Smaller amounts?
 - Other propulsion?
- Changing opinions
- New dilemma's



4



- Densely populated
- 25% below sea-level
- Agricultural production
- Open economy
- Inland transport mainly by pipelines and barges

Case: the Netherlands



Safety chain as basis

- › Ministry of Infrastructure and Watermanagement
 - Proaction
 - Prevention
- › Ministry of inland affairs
 - Preparedness
- › Safety regions



Strategy	For the benefit of the people, follow SDG's and support circular economy			
Tactical	Continuous improvement of safety		Manage the tension between risks of transport and spatial development	
Operational	To have and hold an internationally harmonised legislation for safe transport and facilitation of trade	To have and hold a systematic policy for the management of the development of transport alongside spatial and demographic developments	To have and hold sufficient relevant knowledge and seek international cooperation in achieving our goals. Support EU-policies and a loyal contracting party.	
Instruments	Legislation and enforcement	Contracts	Finance and management of knowledge	Communication



5



Challenges and dilemma's

- Sustainable policy
- Sustainable instruments
- Clever mix of instruments
- Risk based approach



The current system of regulating transport of dangerous good needs an update

Regulation is only one instrument. Sustainable policy should cover a smart mix of instruments

Dare to ask whether a transport can be avoided: no transport is the safest transport

Be aware of new hazards as a result of transitions: new energy sources may create new risks