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Sustainable and resilient transport and trade facilitation in times of pandemic and beyond: key challenges and opportunities

12-14 July 2022

Technical guidance on the climate proofing of infrastructure in the period 2021-2027

Presentation by

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Technical guidance on the climate proofing of infrastructure in the period 2021-2027

Presented by Claus Kondrup, Senior Expert, DG Climate Action, European Commission Multi-year expert meeting on transport, trade logistics and trade facilitation Session on climate change adaptation, resilience-building and DRR for ports United Nations Conference on Trade and Development (UNCTAD)

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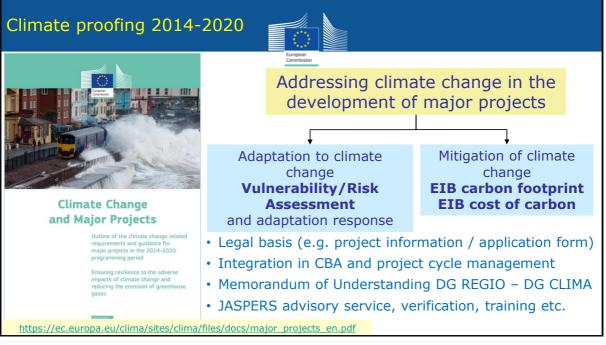




- **Climate proofing is a process** that integrates climate change mitigation and adaptation measures into the development of infrastructure projects.
- In general, the project promoter will include in the project organisation the **expertise** needed for climate proofing and coordinate with other work in the project development process, for instance, environmental assessments. Depending on the specific nature of the project, this may include bringing in a climateproofing manager and a team of experts in climate change mitigation and adaptation.



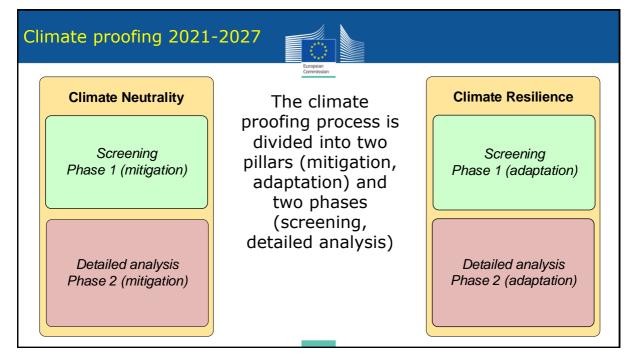
IPCC AR6 WGII	IPCC report "Climate Change 2022: Impacts, Adaptation and Vulnerability"
(Walsh et al., 2019; Monio demand blocations, is separated from the flows of trade that groups, develop new to coastal citic transport and communication infrastructure system resource levelop new to coastal citic multiplying impacts across urban and rural areas 2000 without compared a clobal trade suffers. For even	ms. Connected networks once broken can cascade out, When major manufacturing centres or regionally important pple, flooding in Bangkok in 2011 led to a global short computer manufacturing.





- More EU funds: InvestEU, Connecting Europe Facility (CEF), European Regional Development Funds (ERDF), Cohesion Fund (CF), and Just Transition Fund (JTF), ...
- Updated carbon footprint methodology and shadow cost of carbon
- Climate vulnerability and risk assessment as basis for adaptation
- Consistency with the Paris Agreement and climate objectives
- Documentation and verification
- Environmental Impact Assessment (EIA)
- Strategic Environmental Assessment (SEA)
- Recommendations to support climate proofing in Member States

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Climate proofing 2021-2027

Infrastructure is a broad concept encompassing buildings, network infrastructure, and a range of built systems and assets.

For instance, the InvestEU Regulation includes a comprehensive list of eligible investments under the sustainable infrastructure policy window.



Climate proofing infrastructure (mitigation, climate neutrality)

2021-2027

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	Neutrality slimate change Detailed analysis – Phase 2 (mitigation) Quantify and compare GHG emissions in a typical year of operation with the thresholds for absolute and relative emissions. If above emissions threshold: Monetise GHG emissions using the shadow cost of carbon, firmly integrate "energy efficiency first" in project design, cost benefit and options analysis. Verify the project's compatibility with a credible pathway to the overall 2030 and 2050 GHG	
Climate neutrality proofing documentation	overall 2030 and 2050 GHG emission reduction targets.	

Climate proofing infrastructure (adaptation, climate resilience)

2021-2027

