

Investments & ... climate resilience

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Welcome!



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Why are we here?

Objectives

- Brainstorming with all interested programmes searching for a pragmatic approach avoiding disproportionate requirements for applicants / beneficiaries;
- Listening to approaches by frontrunners;
- Sharing reflections on options.

Format

- 12 September, 10.00 12.15 CET;
- N° participants <-> interactivity.





Starter - objectives Apéritif - Interact reflections First course - Testimonials
Apéritif - Interact reflections
First course - Testimonials
Main agurag Disussion
ideas, considerations,
possible simplifications.
Digestif – What's next?



Setting the scene

Checking infrastructure for climate resilience





Infrastructure in Interreg projects....

Relatively small in comparison to ERDF mainstream projects, yet

- diverse –small scale investments (small projects), pilot activities, cycle paths (5MEUR), rehabilitation of road bridges across border rivers (15MEUR), up to a hospital for cross-border use (40MEUR);
- innovative;
- demanding localizations (mountainous, maritime, along riverbed, marshlands, etc.);
- exposed to natural hazards;
- sometimes infrastructure related to protected heritage;
- In case of genuine cross-border infrastructure (bridge, tram across border, border crossing) two legal systems meet and hence more time for clarification of standards and legal provisions is required.



Today in the room...



Small scale investments, pilot investments (part of innovative projects), small tourism infrastructure, revitalization, restoration of culture heritage objects.

Roads, rail transport, cycle paths, renewable energy. Natural hazards protection and prevention infrastructure.

Roof adaptations, monitoring infrastructure, adaptation of urban spaces.

Other (education, health sector).

The biggest challenges...



Understanding of requirements, lack of knowledge & expertise Process design and performance (including assessment criteria setting)

Equal approach in MSs & other partner countries

Dimensions...

Processes

• What is needed to collect, when to collect & check, what to assess?

Types of projects, types of infrastructure

• (ceilings, fast tracks, other simplifications...)

Partners' obligations

 (self-declarations, justifications documentations and analysis, feasibility studies, permits...)

> Simple and clear communication to applicants....

Ideas, examples...

Assessment process

(Internal, external, how detailed, separate, broader context?),





Clarification of the legal requirement

Novelty in article 22 Interreg Regulation on selection of projects [Art 22(4)(j)]:

In selecting operations, the monitoring committee or, where applicable, the steering committee shall:

• ensure that, for investments in infrastructure with an expected lifespan of at least five years, an assessment of expected impacts of climate change is carried out.

The meaning has been clarified with DG Regio (Unit G1 on Sustainable Growth):

This assessment only addresses the <u>climate adaptation (resilience)</u> of infrastructure investments.





Horizontal principles & issues - 1/2

EU charter of fundamental rights

Equality between men and women, Gender mainstreaming

Non-discirmination including accessibility

Sustainable development

DNSH

EIA / screening

Climate resilience of infrastructure projects

Climate target tracking

Biodiversity tracking

Article 9 CPR: throughout the preparation, implementation, monitoring, reporting and evaluation

Article 22.2, Interreg: Taken into account when selecting ...

EGESIF explanatory note; guidance for RRF: In programming assessment for types of action; standard clause in programme; assessment for projects only if programme is not sufficiently detailed

Article 22.4e), Interreg: EIA for projects in Annexes I & II

Article 22.4j), Interreg: Assessment on climate resilience to be carried out...

Calculation based on pre-fixed coefficients at level of intervention fields



Horizontal principles & issues - 2/2

E cohesion	Electronic exchange with COM: Is a system in place? Is it operational and complies with requirements
Public procurement	Encouragement for the strategic use of public procurement (green, innovative, e-systems etc.) – letter to CBC programmes
The New European Bauhaus	Search for Interreg examples: Sustainable, beautiful & inclusive projects, ideally in public space and co-created Downstream proceedings not yet clear
Durability of results	Major concerns coming from business support for Interreg ECA-Report



Infrastructure?

The Guidance* includes a rather broad definition ...

- **buildings**, from private homes to schools or industrial facilities, which are the most common type of infrastructure and the basis for human settlement;
- nature-based infrastructures such as green roofs, walls, spaces, and drainage systems;
- **network infrastructure** (e.g. grids, power stations, pipelines), transport, information and communication technologies (e.g. mobile phone networks, data cables, data centers), and water (e.g. water supply pipelines, reservoirs, waste water treatment facilities);
- Waste management systems (collecting points, sorting and recycling facilities, incinerators and landfills);
- other physical assets in a wider range of policy areas, including communications, emergency services, energy, finance, food, government, health, education and training, research, civil protection, transport, and waste or water;

* Technical guidance on the climate proofing of infrastructure in the period 2021-2027 C(2021) 5430 final





Reflections on why & how?

Some hints on strategies ... Hoover institution @ Stanford University (US)

- 1. Make better decisions in the face of uncertainty many assumptions in construction no longer hold ...
- 2. View infrastructure systemically it is interconnected and complex!
- **3.** Take an iterative, multi-hazard approach stressors rarely occur alone or lead to single impacts, a multi-hazard approach can allow designers to consider interactions among risks and domino effects that may follow.
- 4. Improve and inform cost-benefit analysis (CBA) when CBA only accounts for the upfront capital costs of infrastructure it may lead to less resilient infrastructure.
- **5.** Mainstream nature-based infrastructure The use of nature-based, or green, solutions as either alternatives or complements to conventional, or gray, infrastructure can help reduce risks, enhance resilience, and support i.a. environmental objectives.
- 6. Plan now to build back better enormous annual disaster losses could be avoided if rebuilding were to be improved after each disaster over the next twenty years.

Hill, Alice C., Douglas Mason, Joanne R. Potter, Molly Hellmuth, Bilal M. Ayyub, and Jack W. Baker. Ready for Tomorrow: Seven Strategies for Climate-Resilient Infrastructure. Hoover Institution, 2019.



Checking climate resilience



Sketch of the (ideal) procedure including the essential question on significant risks

But full application seems not really proportionate for the usual infrastructure in Interreg ...

Source of figure: Commission Notice Technical guidance on the climate proofing of infrastructure in the period 2021-2027 C(2021) 5430 final

Phase 1 (screening)

nature-based solutions.

risk management, insurance.

· engineering solutions, technical design, ...

SENSITIVITY ANALYSIS					EXPOSURE ANALYSIS					
Indicative sensitivity table: Climate variables and hazards (example) Flood Heat Drought			Indicative exposure table: (example)	Climate variables and hazards Flood Heat D						
On-site assets, E Inputs (water,)	High Medium High	Low Medium		Low Low	Current climate Future climate	Medium High	Low Medium		Low Low	
Fransport links Medium Low Low Highest score 4 themes High Medium Low The output of the sensitivity analysis may be summarised in a table with the sensitivity ranking of the relevant climate variables and hazards for a given project type, irrespective of the location, including critical parameters, and divided in e.g. the four themes. Highest score 4 themes Highest score 2 core current future Highest score 2 core current future Highest score 2 core current future Highest score 2 core									Low le with the ne selected and future ing system should be	
VULNERABILITY ANALYSIS										
Indicative vulnerability table: (example)	ative vulnerability table: Exposure (current + future climat mple) High Medium I		le) Legend Low Vul	Legend: Vulnerability level						
Sensitivity (highest Hig across the four themes) Me Lov	h dium /	Flood	He	at Dr	ought	High Medium Low				

The vulnerability analysis may be summarised in a table for the given specific project type at the selected location. It combines the sensitivity and the exposure analysis. The most relevant climate variables and hazards are those with a high or medium vulnerability level, which are then taken forward to the steps below. The vulnerability levels should be carefully defined and explained, and the given scores justified.

Phase 2 (subject to the outcome of phase 1)

LIKELIHOOD ANALYSIS				IMPACT ANALYSIS							
Al The ou quantiti variable various climate project literatu	cative scale for assessi Term Rare Unlikely Moderate Likely Imost certain tiput of the likelihood ative estimation of th es and hazards. (*) C reasons including e.g among other due to cli re.	ng the likelihood of a clii Qualitative Highly unlikely to occur Unlikely to occur As likely to occur as not Likely to occur Very likely to occur Very likely to occur Very likely to occur e likelihood for each efining the scales req that the likelihood an ginificantly during the lii mate change. Various s	mate hazard (e Quant 2 5 8 9 narised in a q of the esser juires careful d impacts of t fespan of the in cales are refer	example): itative (*) 5% 00% 00% 05% upalitative or tial climate analysis for the essential nfrastructure red to in the	Indicative scale for assessing the potential impact of a climate haze (example) <u>Risk areas:</u> Asset damage, enginee Safety and health Environment, cultural he Social Financial Reputation Any other relevant risk a Overall for the above-lis The impact analysis pro- each of the essential clim	Impacts: ard aring, operational aritage area(s) ted risk areas rides an expert assessm ate variables and hazard	Insignificant ent of s.	Journa the po	Moderate	Major	ct for
L			F	RISK ASS	ESSMENT						
Likelihood	cative risk table: mple) Rare Unlikely Moderate Likely Almost certain	Overall important insignificant	act of the esse Minor Drought Heat	ntial climate v Moderate Flood	ariables and hazards (exan e Major	nple) Catastrophic		Leger Ris I Me Ex	nd: k level Low edium High treme		
The output of the risk analysis may be summarised in a table combining likelihood and impact of the essential climate variables and hazards. Detailed explanations are required to qualify and substantiate the assessment conclusions. The risk levels should be explained and justified.											
Option identification process: I dentify options responding to the risks (use e.g. expert workshops, meetings, evaluations,) Adaptation may involve a mix of responses, e.g.: training, capacity building, monitoring, use of best practices. The appraisal of adaptation options should give due of data. In some cases a quick expert judgement may suffice whereas other cases may warrant a training, capacity building, monitoring, use of best practices. The appraisal of adaptation options should give due the technical project design and management may suffice whereas other cases may warrant a training, capacity building, monitoring and response, plan for regular review of madards											

options vis-à-vis climate change uncertainties.

vulnerability and risk assessment and adaptation

planning is aiming to reduce the remaining climate

risks to an acceptable level.

INTERACT

Methodological pillars

The guidance helps to understand the main perspectives and the cornerstones of the method. It might be useful to structure questions in assessment or for self-declarations.

We have to bear in mind that still many things build in Interreg will / should last for the next couple of decades ...



Reflections and options

Expertise

• Support from external experts; or eventually relevant authority (represented in the MC) might step in?

Checking national legislation on climate change and climate resilience

• Questionable, if our risk perceptions should go significantly beyond legal requirements?

Risk scenarios at programme level

 It might be interesting to establish a broad-brush impact scenario for the programme area highlighting major risks thus contributing to aspects of exposure, vulnerability, likelihood and impact ...

Self-declarations of the applicant

• In particular for public investment this might be an option.

Thresholds for application of an assessment

• Particularly small infrastructure might be taken out of any additional considerations (but in turn there should be provisions on insurance or maintenance in the contract).



Example: AT

Checking national / regional legislation on climate change and climate resilience

Spatial planning – result of debate in an AT expert panel:

- Partial progress of anchoring climate change and inherent risks in spatial planning laws but often the local level will follow more concrete interests in case of conflicting interests;
- Risk zones (flooding, land slides etc.) are in theory considered in zoning and building plans but quite often local level (as authority in charge) does not prevent building in risk zones;
- Also difficult to keep areas for green & blue infrastructure;
- Wise & economic use of soil not consistently anchored in all laws of all regions;
- Option: SEA should be used for climate proofing in spatial planning;
- Major progress in anchoring flooding in regional development plans.

Source: 2nd progress report for the National Adaptation Strategy for Austria (2021); sections on construction and housing & spatial planning



Reflections

Let's learn from each other!



Programmes sharing reflections and where they are standing

- 1. Krzysztof Kaczmarek (PL-SK)
- 2. Austria Bavaria
- 3. Maciej Molak (CZ-PL)

Questions - indicate name of a speaker to whom question is addressed











Austria – Bavaria - 1/2

Procedure is anchored in RoP; HP representative has mandate to ask for further information from applicant; low number of cases expected (3 to 5)





Austria-Bavaria - 2/2

Wording in the criteria for project selection

Climate resilience of infrastructure*

Projects with infrastructure investments with an expectable lifespan of at least five years and a planned investment volume of at least 1 MEUR total cost – or an expectably low resilience to climate change - have to be checked on the expectable impact of climate change.

The check of such projects, safeguarding climate resilience, will be done by

- the regional coordination units and JS as part of the assessment at the application stage and
- the representative of an authority in charge of environment protection and climate providing expertise on it.

Intended investments not ranked as sustainable infrastructure require a dedicated approval of the MC.

*Interreg Austria – Bavaria, Criteria for project selection, March 2022, p.9



Discussing options

What can we do at programme level?



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> Simple and clear communication to applicants....

Ideas, examples...

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Takeaways

- Need for a pragmatic and proportionate approach tailored to programme specificities (e.g. expected types of infrastructure);
- Cutting red tape and unnecessary requirements for applicants by performing relevant environmental analysis at programme level and development of systemic approach toward expectable project types;
- Eliminating duplicities (check regarding coverage of climate resilience in relevant national laws on building, spatial planning, environment protection etc., i.e. integration of major aspects in the planning and design phase);
- Timeline of verification adjusted to the programme approach (if introduced as requirement at the application stage and a potentially high likelihood of non-approval it puts additional burden on too many applicants and slows down the assessment process, whereas if done too late it might lead to significant changes in the project and its budget and hence might in worst case necessitate changes to MC decisions;
- Introduction of financial or technical thresholds (financial, but not only see examples from Austria Bavaria and Czechia Poland), could be a potential streamlining option.



Wrap-up and Closure

What's coming?





Resilience next steps

Separate thread and wiki in Investments in Interreg Community





What should we discuss next? Menu:

- 1. Types of investments in Interreg generic (definition, study);
- 2. Pre assessment and assessment phase;
- 3. State aid and investments;
- 4. Implementation phase;
- 5. Management verification;
- 6. Sustainability;
- 7. Other... survey among the community members about further needs September 2022.





Stay in touch!



Please fill in our evaluation survey – link in chat!

Thank you in advance for taking the time!



Join our e-Interreg Investments community

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Cooperation works

All materials will be available on:

www.interact-eu.net



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