

Networking lunch break





Breakout sessions focussing on barriers to access finance and solutions

Water related sectors

Go to Room EKI 4118

Networks, grids, roads, railways...

Go to Room EKI 4205

Value chains (bioeconomy focus)

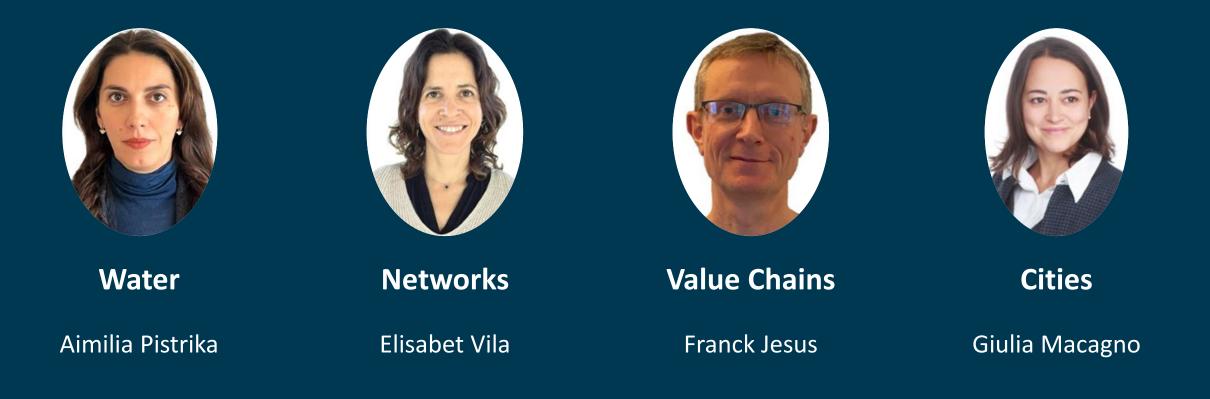
Go to Room EKI 4128

Cities and public authorities

Stay in room EKI 4226







Main feedback from break out sessions









Alexandrina Boyanova

Head of Climate Office Division in EIB Operations

Magdalena Bos-Lewandoska

European Commission DG CLIMA Climate Adaptation and Resilience Unit



Financing climate adaptation







Alexandrina Boyanova

Head of Climate Office Division in EIB Operations

EIB Financing of climate adaptation



The EIB Group – who we are



Nearly €88 billion of new financing for high-impact projects



Investment Bank

European

The worlds largest multilateral lender

- Long term lender \triangleright
- Raising finance on debt capital markets \geq



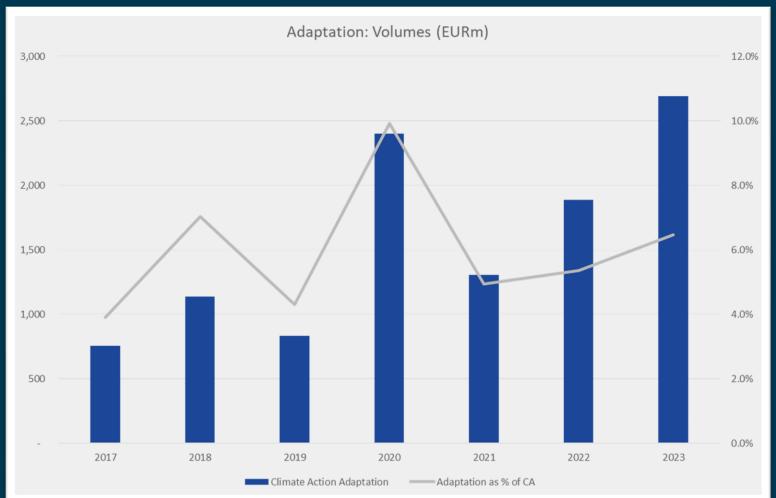
- Driven by EU policies \succ
- Implementing EC mandates (incl. InvestEU) \geq
- Provider of climate finance EU Climate Bank
- **Global operations** EIB Global
- Provider of risk finance to SMEs EIF
- Headquartered in Luxembourg \geqslant
- More than 4,000 staff in 59 offices worldwide \triangleright







Adaptation financing trend: 2017-2023



2023 Adaptation volume was 6.5% of total 2023 CA volumes (which compares to the target of 15% by 2025).

However, this masks a strong underlying annual increase in Adaptation volumes – i.e. they increased by 43% to EUR 2.7bn in 2023.

Adaptation is a continuing priority area with ongoing roll-out of the Adaptation Plan.

2023 numbers are provisional and subject to audit

Public

EIB ADAPTATION DAYS Main barriers to adaptation financing

Lack of standardized definitions and appraisal methods

Adaptation identification is difficult, which affects public and private sector in screening their investments

Process based identification of eligible assets

The need for adapting to climate change does not necessarily translate into a robust (pipeline of adaptation projects.

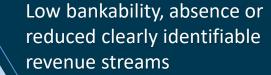
Access to concessional funds for structural and nonstructural interventions

Cost and public good nature of most adaptation interventions often require public funding and access to grants as incentives for action



Scatered, context specific, investments

May require aggregation to be cost-covering



Monetizing climate risks and benefits is challenging, impacting private sector appeal and increasing capital requirements.

Lack of regulations and limited access to information

Gathering climate risk data is tough. Scarce regulations addressing risks



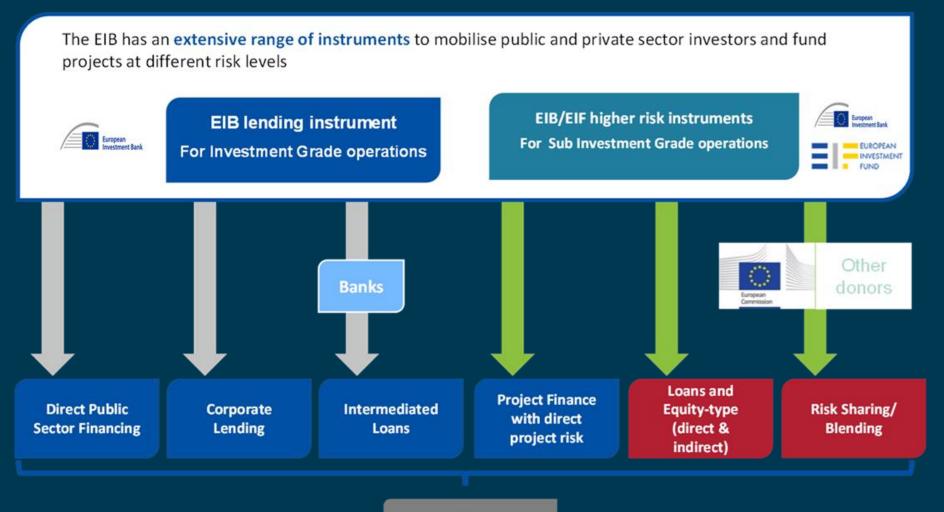


European Investment Bank





The EIB traditional toolkit of products



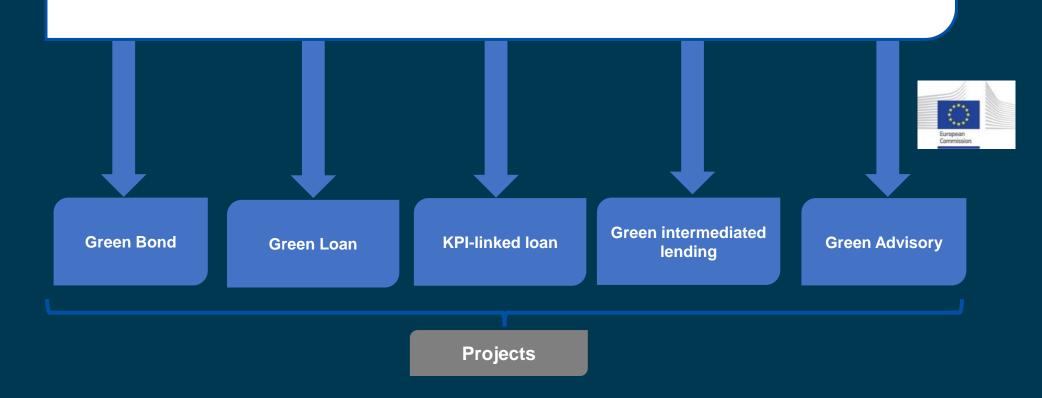
Projects





The EIB is developing new instruments to enhancing its product offering in order to generate increasing volumes of green funding.

New Climate Product Development



ADAPTATION DAYS Lisbon Climate Adaptation Drainage System



Client: Camara Municipal De Lisboa (Portugal)

EIB

- Financial product: direct investment loan to public sector
- Approach to assess physical climate risk: promoter's analysis of climate vulnerabilities
- Key climate vulnerabilities: flooding after extreme rainfall
- Adaptation activities: enhanced urban drainage systems to cope with increasing extreme precipitation events
- Adaptation finance: 6 5 m (40% of total project investment cost of EUR 163 m)



KWS SAAT RDI

EIB ADAPTATION

Client: KWS (Germany)

DAYS

- Financial product: <u>corporate loan</u>
- **Approach to assess physical climate risk**: promoter's analysis of changing agro-climatic conditions.
- **Key climate vulnerabilities**: more frequent and harmful biotic (insects, viruses, bacteria, mycotoxins or fungi, weeds) and abiotic stress (drought, cold, heat flooding, and salinity).
- Adaptation activities: New seed varieties are typically created to better adapt and retain agricultural productivity in changing agroclimatic conditions.
- Adaptation finance: 100% of project investment cost (EUR 275m)







EIB ADAPTATION DAYS



Client: Project SPV (LEVVEL BV)

Financial product: project finance structured investment loan.

- **Approach to assess physical climate risk**: Project was part of major infrastructure investments planned by the national authorities.
- **Key climate vulnerabilities**: flood protection infrastructure dating back to more than a century facing increased sea level.
- **Adaptation activities**: Upgrade of the 32km long flood protection "Afsluitdijk".
- Adaptation finance: 80% of project investment cost (EUR 325m).





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Flood protection in the Netherlands

- Client: NWB Bank (Netherlands)
- Financial product: intermediated loan for on-lending to Water Boards
- Approach to assess physical climate risk: promoter's analysis of climate vulnerabilities
- Key climate vulnerabilities: seal level rise, storm surge, extreme rainfall events and flooding
- Adaptation activities: small and medium-sized flood control and water resources management projects promoted
- **Adaptation finance**: 75% of project investment cost (EUR 200m)







Fire engines for disaster prevention in Greece

- **Client:** Hellenic Republic (Greece)
- Financial product: <u>framework loan</u>
- **Approach to assess physical climate risk**: Project was part of major COVID 2019 Disaster Prevention and Climate Adaptation framework
- **Key climate vulnerabilities**: Increased frequency of heat waves, forest fires and droughts in Southern Europe.
- Adaptation activities: Identified needs to reshape and multiply the operational and administrative capabilities of the Civil Protection services.
- Adaptation finance: 79% of project investment cost (EUR 595m).



Publ





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Client: X Ocean

- **Financial product**: <u>Venture debt</u> under the THEMATIC GREEN TRANSITION (INVESTEU Venture Debt)
- Key climate vulnerabilities: Gap in climate systems data.
 This project will collect ocean data.
- Adaptation activities: financing of a fleet of Uncrewed Surface Vessels (USVs) for collecting ocean data, mainly to the benefit of the off-shore wind energy sector and marine science, as well as RDI of additional technological solutions for ocean monitoring and surveying.
- Adaptation finance: 50 % of project investment cost (EUR 20 m)



Adaptation Days Athens Resilient City

- **Client:** Municipality of Athens
- Financial product: <u>framework loan co-funded</u> by EU
 Structural Funds
- Approach to assess physical climate risk: EIB advisory services to assess climate risks and identify adaptation activities
- Key climate vulnerabilities: Heat waves, heat island effect, flash floods, heat related illnesses and deaths.
- Adaptation activities: Green and Blue infrastructure in urban planning, cool pavements, materials with low embodied energy, and bioclimatic design. Public information and awareness campaign.
- Adaptation finance: 31 % of project investment cost (EUR 185m)





Investment Bank

European







Thank you!

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Agenda







Magdalena Bos-Lewandowska

European Commission, DG Climate Action

Adaptation and Finance

Agenda



Adaptation and Finance

Magdalena Bos-Lewandowska European Commission, DG Climate Action

Climate change – financial exposure

2023 (estimates by SwissRe Institute)

- Natural catastrophes losses more than USD 100 billion.
- Main contributor severe thunderstorms.
- Losses from severe thunderstorms increase by 7% annually over past 30 years.
- Italy: losses of more than USD 3.3 billion.





Climate Resilience Dialogue

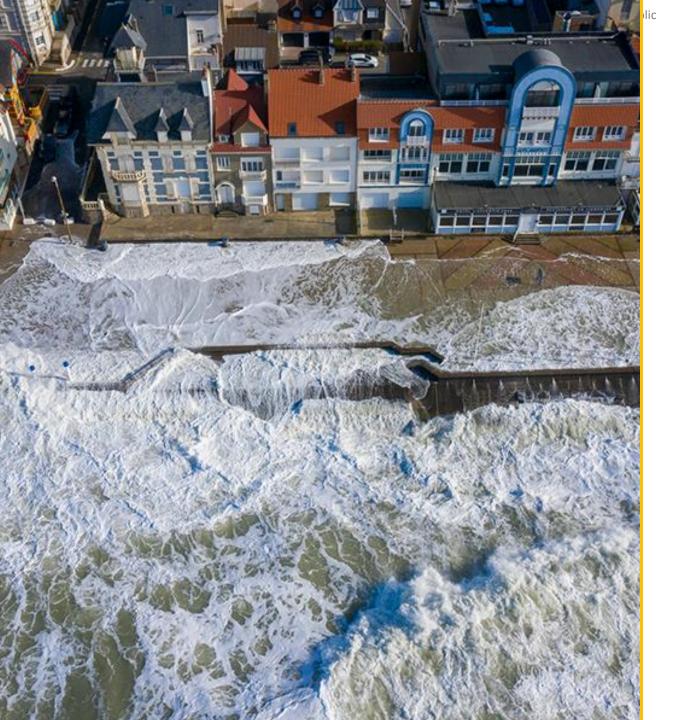
<u>Tasks:</u>

- exchange views on how to address the losses incurred from climaterelated disasters;
- identify actions that increase the penetration of climate risk insurance for industry and all of society;
- discuss how to make the conditions right for more investment in good adaptation solutions.

Participants:

17 organisations that represent the full range of different stakeholders, i.e. insurers, reinsurers, risk managers, public authorities and regions, and representatives of consumers and the real economy.





Adaptation = Climate Resilience

Resilient to climate change:

able to effectively **prepare for** and **recover** from the effects of climate change, and **continue to thrive**



Prepare – climate resilience building

- Economic rationale: investment in resilience is better than spending on recovery
- Preparedness at all levels:
 - aware of climate change effects for your business (short and long term)
 - assess the risk = estimate financial exposure
 - reduce the risk = lower the exposure



Reflection Group on mobilising Climate Resilience Financing

Main tasks:

- to explore on how to facilitate climate resilience finance;
- map best practices and identify obstacles and enabling conditions for the financing of climate resilience

It will bring together key industrial players and representatives of public and private financial institutions, that will look into how to coordinate their actions and look for possible gaps and/or synergies.



Thank you



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Fotios Kalantzis

Senior Climate Expert – EIB Economics Department

What drives firms' investment in adaptation?





Climate readiness: key takeaways from the EIBIS and Municipalities survey

Fotios Kalantzis

EIB Economics Department





Public



Surveys background information



European Investment Bank

EIBIS: 13,000 firms surveyed across EU27, plus the US and the UK (until 2021)

Firms of 5+ employees in Manufacturing, Services, Construction & Infrastructure sectors

Representative of the economy (firms weighted by value-added)

Municipalities survey: 744 across EU27, representative by cohesion region type

General information on:

- Characteristics and performance
- Past investment activities and future focus
- Investment finance, needs and constraints

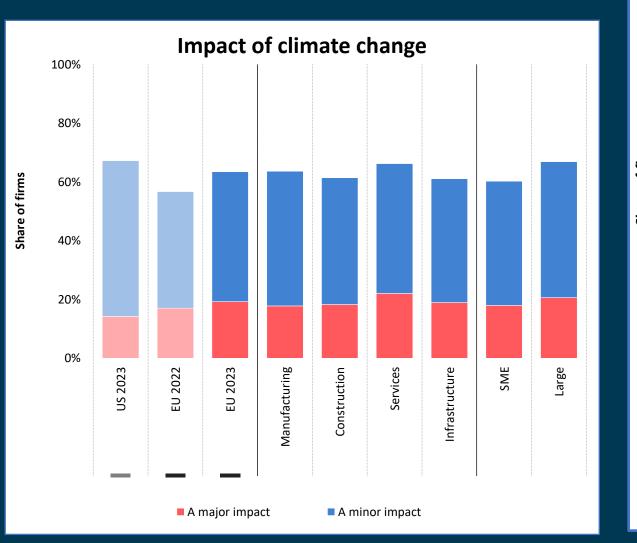
Focus on Adaptation:

- Impacts of climate change
- Investment in adaptation measures

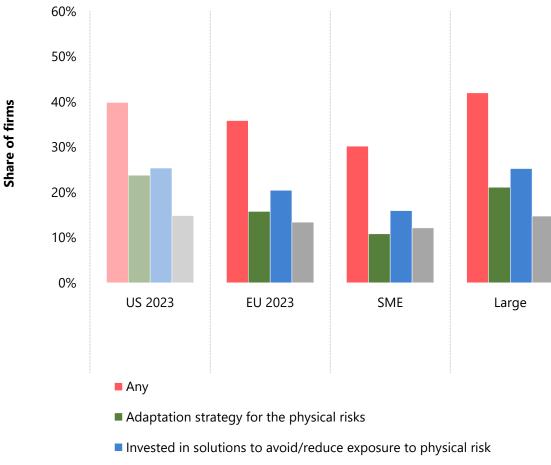


Many firms face physical risks, yet few invest in resilience





Building resilience to physical risk



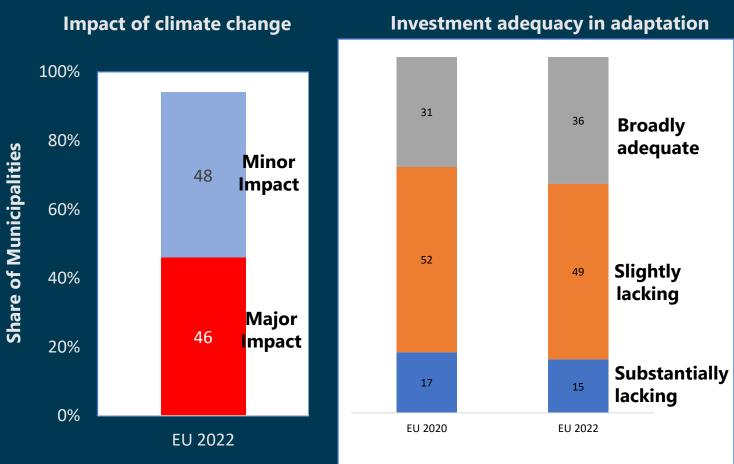
Bought insurance products to offset climate-related losses

Public

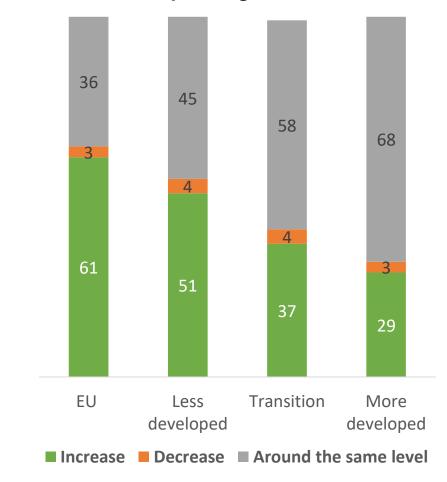


Municipalities momentum: from heat to action!





Investment planning: 2022-26 vs. 2019-21







ADAPTATION Would you like to learn more?



European Investment Bank







EIB INVESTMENT SURVEY

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European Investment Bank



The state of local infrastructure investment in Europe **EIB Municipalities Survey** 2022-2023













Oliver Walker

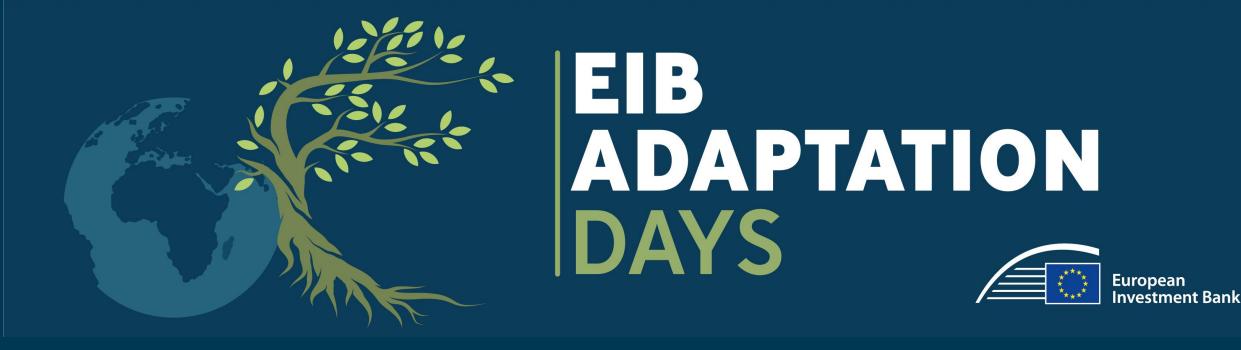
Senior Expert and Associate Partner, McKinsey. **Chris Perceval**

S&P Global Sustainable

Alexandrina Boyanova

Head of Climate Office Division in EIB Operations

Looking ahead on innovative adaptation finance



Networking drinks (Foyer Bananiers)

Project Clinics



Agenda