# Cutting Edge ESG Applications

A dialogue of perspectives in Real Estate



Julia Wein CRREM Operational Lead



Francesca Galeazzi

ARUP

Europe Decarbonisation Services Leader



Sandrine Lafon-Ceyral AMUNDI Chief Responsible Officer





#### The Carbon Risk Real Estate Monitor (CRREM) provides the real estate industry

with transparent, science-based decarbonization pathways aligned with the Paris

Climate Goals of limiting global temperature rise to 2°C, with ambition towards

1.5°C. CRREM considers both operational carbon and energy intensities.

What is CRREM?

CRREM...

... evaluates and tracks operational carbon/energy

... differentiates performance targets based on use and location

... provides pathways for both carbon and energy intensity

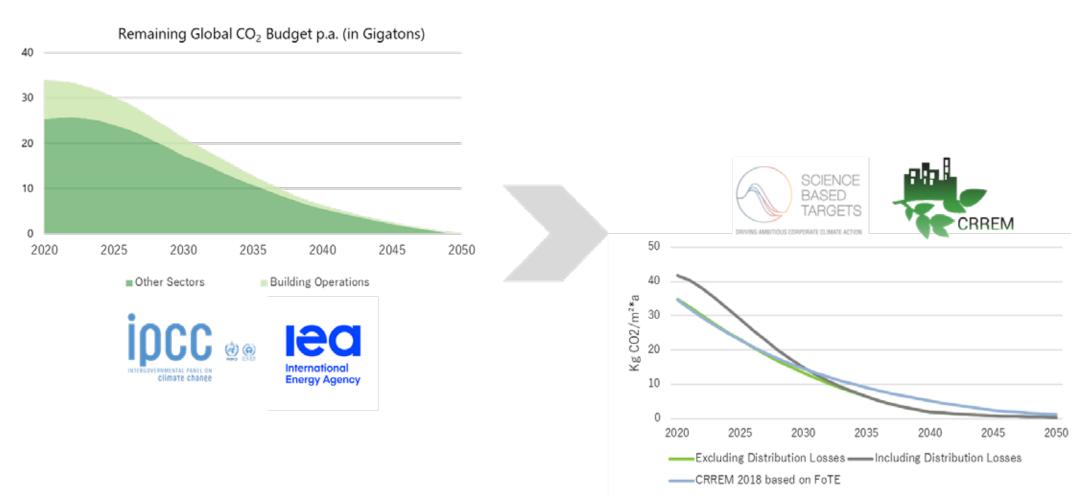
... pushes for **global alignment** with other sectors / approaches / initiatives

... is a whole building approach to holistically evaluation asset decarbonization

... uses straightforward intensity KPIs (per SqFt, SqM) for tracking



#### Global CO2 & kWh Intensity Pathways



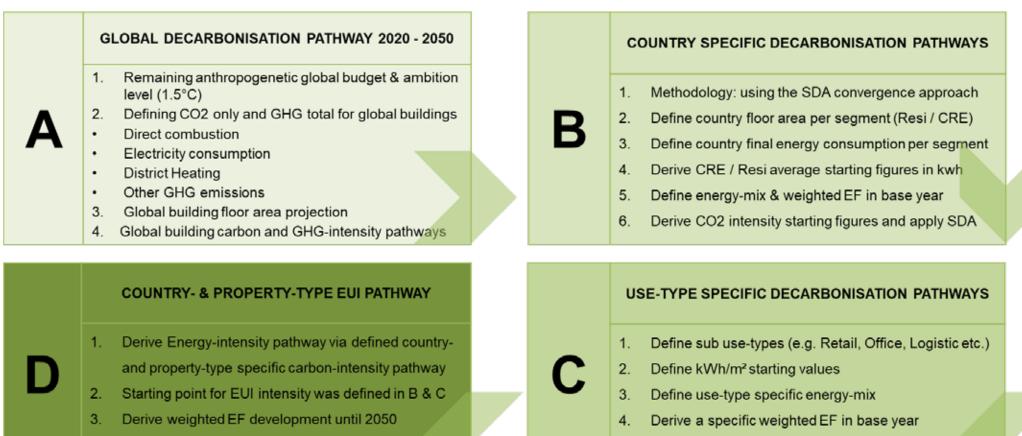
CRREM

#### Global CO2 & kWh Intensity Pathways

Convert carbon intensities in kwh intensities (account

for renewables with zero emission)



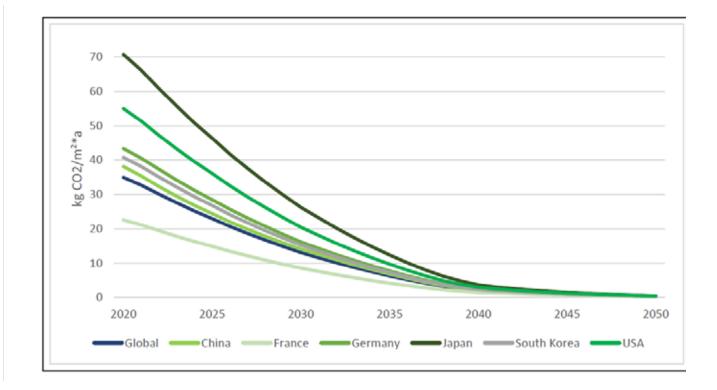


 Derive sub-use decarbonization pathways via CRE pathway

#### **Enhancing Granularity**



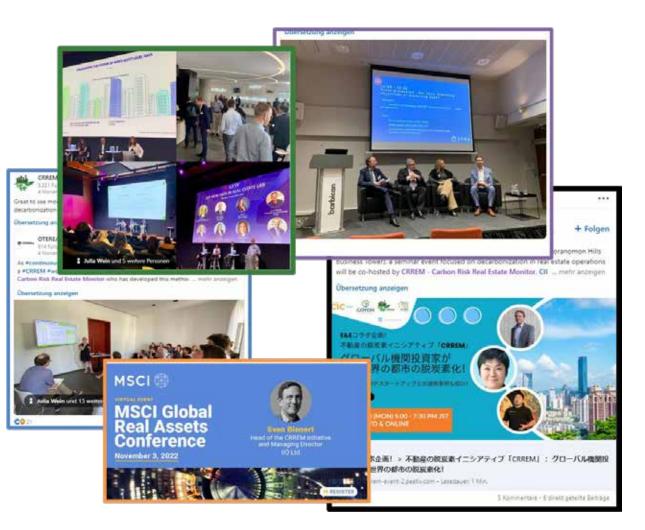
- More Data partners: for specific data. Partners include: CSR design, UKGBC, Australia GBC, etc.
- Year: New baseline year 2020 (2018 previously).
- New property-type: Industrial Dist. Warehouse Cooled & Industrial Dist. Warehouse Warm.
- Further granularity on regions: Further sub regions have been included for the USA as well as Australia (due to the country area/size).
- New GHG-pathway: New CO2 & CO2"e" pathways for correct benchmarking



#### Continuous market uptake – becoming the global standard

- Update of the CRREM Tool with the new pathway
- Focus on increasing market uptake in Asia Pacific & America
- Standard setting with reports and publications
- Many new CRREM partners/service providers: JLL, Evora, Scius, etc.
- Massive additional international uptake <u>surpassing the</u>
  <u>6.000 bn AuM mark already</u>
- Numerous paid individual CRREM Workshops given to companies
- Increased uptake by <u>the banking sector</u> also applying CRREM for their collateral (e.g. OCBC, NAB, Nord LB, ING, PNB Paribas, Deka Bank, UBS, DNB Dutch Central Bank, etc.)
- Always over <u>200 participants in the monthly CRREM Training</u> sessions "Basics & Advanced"





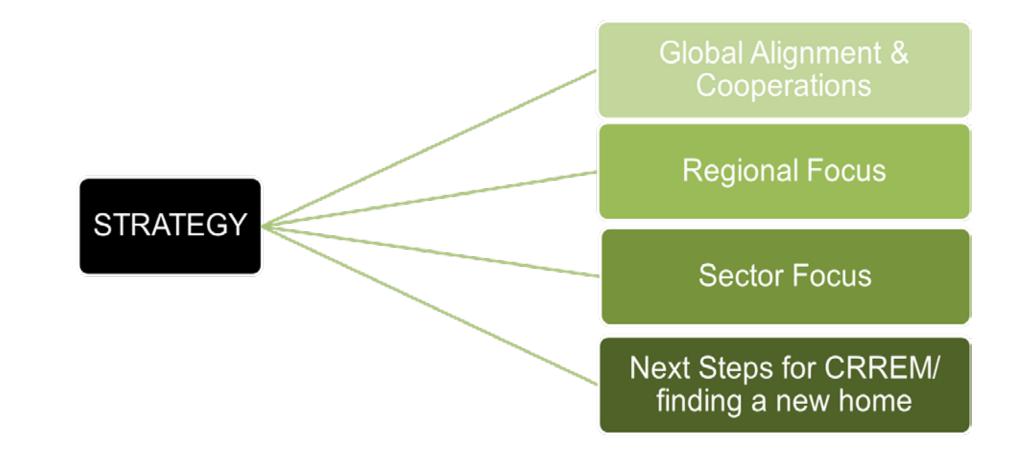
**Global Partners** 





What is next?

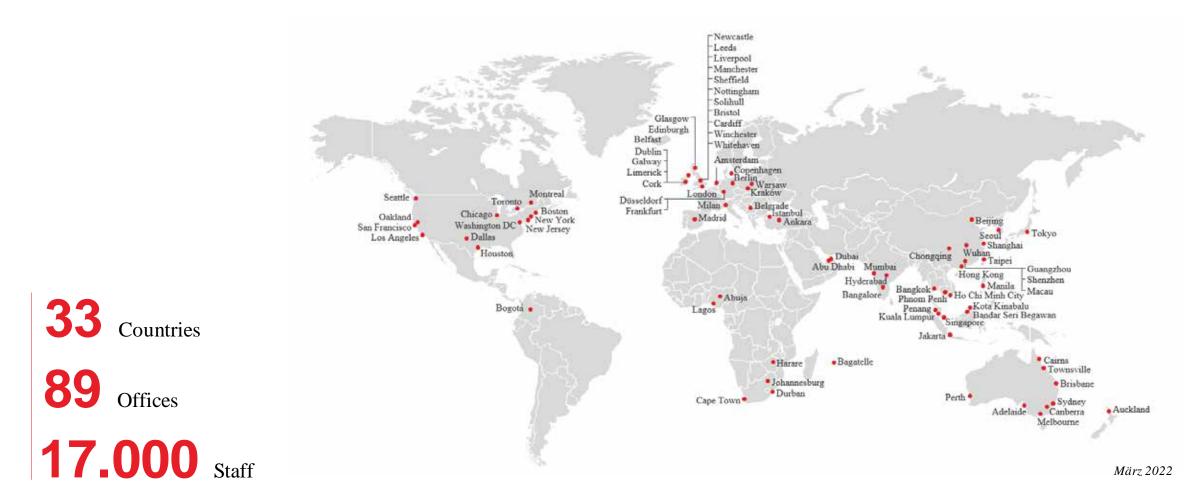






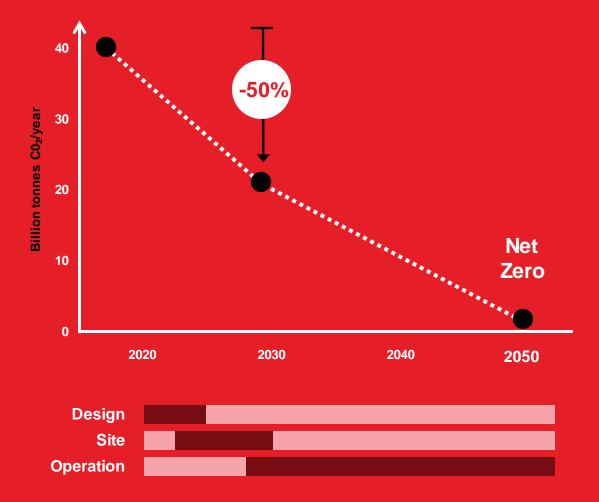
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#### Local expertise in a global network



ARUP

This is a critical period to achieving net zero carbon emissions – buildings constructed now will be operational throughout 2030-2050.





### The ESG consultant perspective

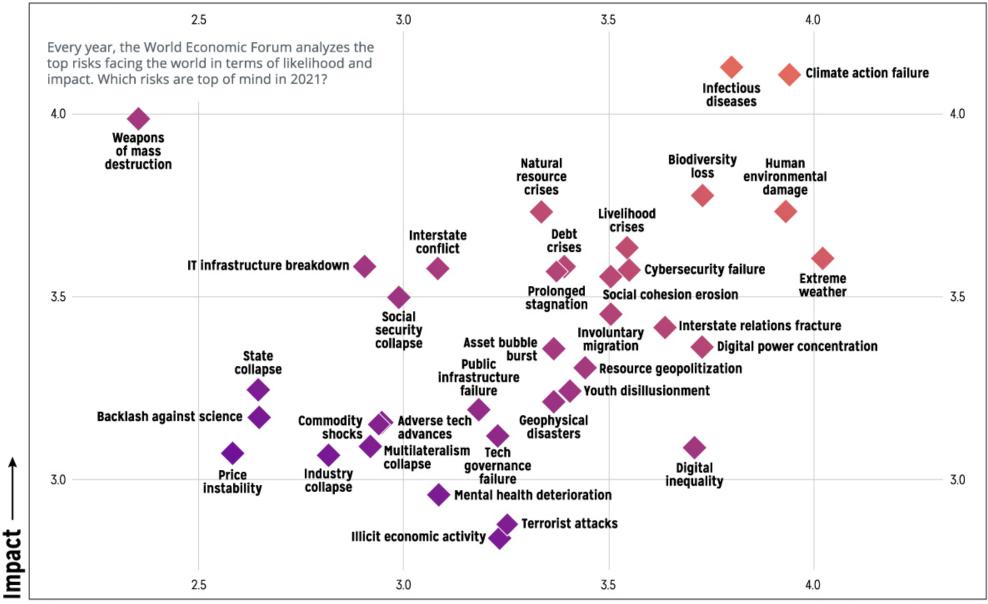
Time for action



Delay action is a business risk

**2021 Global Risks Outlook** 

ARUP



Likelihood ——

Source: WEF Global Risks Report 2021



### The ESG consultant perspective

Time for action



Delay action is a business risk

Do not wait for perfect data

#### What we have learnt Insights from working across asset portfolios PATRIZIA GENERALI lendlease BARINGS Union + 7.000.000 sqm // DWS COIMA Analysed ARDIAN REAL ESTATE REVETAS CAPITAL + 500 assets deep SwissLife decarbonisation Google .,Deka **III SIGNA REAL ESTATE** Rabobank WORKPLACE **SERVICES**

### ARUP

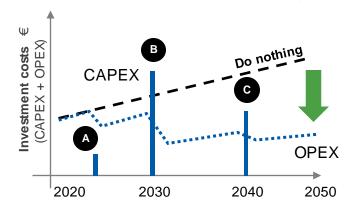
### Business case of climate action

#### Who paysfor and benefits from the savings

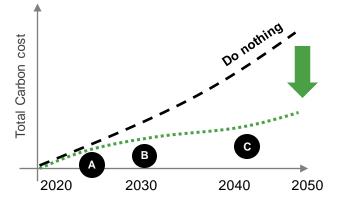
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**Carbon reduction** 

#### Investment and cost savings



#### Shadow cost of Carbon



Decarbonisation measures: balancing energy efficiency and embodied carbon (WLCA)

Investment required (CAPEX) and reduced operational costs thanks to energy efficiency measures (OPEX) Cost of climate impacts (shadow price by German environmental ministry, IPCC-aligned cost):

2020: **680** €/tCO2e 2030: **700** €/tCO2e 2050: **765** €/tCO2e

A, B, C= short, medium and long term refurbishment measures

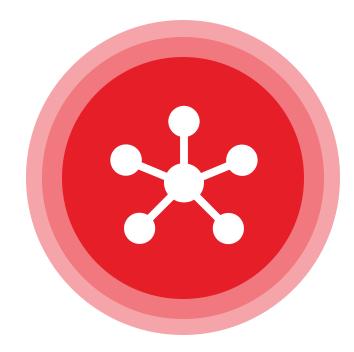


### The ESG consultant perspective

Time for action







Delay action is a business risk

Do not wait for the perfect data

Integrate solutions

### ARUP

### CRISP

#### **Climate Risk Impact Screening of Portfolios**

CRISP

- Arup deep technical expertise + dynamic digital solution
- Clear visualisations
- **ü** Carbon related risks
- Appropriate decarbonisation measures
- Investments and savings, key economic metrics
- **ü** Bespoke scenarios
- Prioritise actions
- Monitor and validate progressReport with confidence

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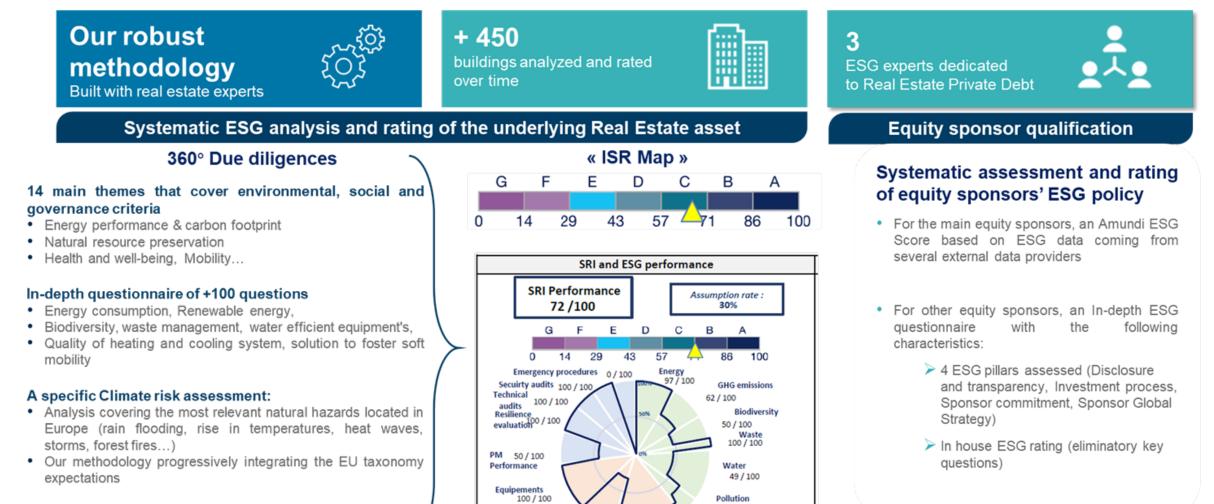


Francesca Galeazzi Europe Decarbonisation Services Leader

Francesca.galeazzi@arup.com

### Amundi Real Estate - ESG assessment methodology

A proprietary methodology based on 360° due diligences



Transportation

35/100

71/100

Health and well - being

83 / 100

Grading scale from A to G, with A being the best grade with systematic exclusion of assets rated below D

### Amundi Real Estate – ESG rating methodology

#### Climate risks analysis

