

WORKSHOP // MARCH 17TH AND 18TH 2021

Climate resilience and design codes - factoring in climate projections

Aligning infrastructure standards with information about the future climate

Outline for Technical Report: Pitch to Panel

Thursday 18th March, 2020

Prof. John Dora

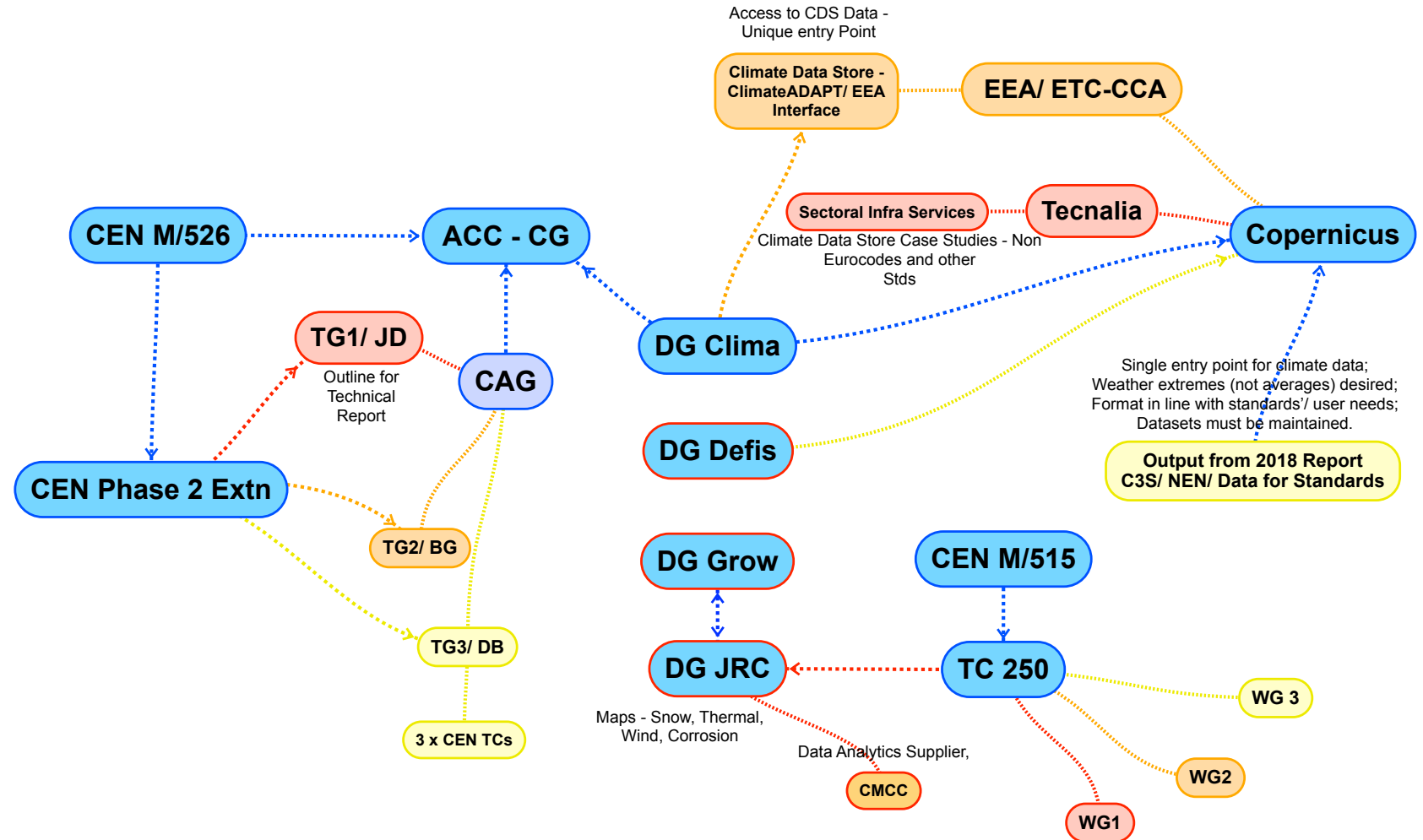
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Recap: Desk Study – Identification of data needs

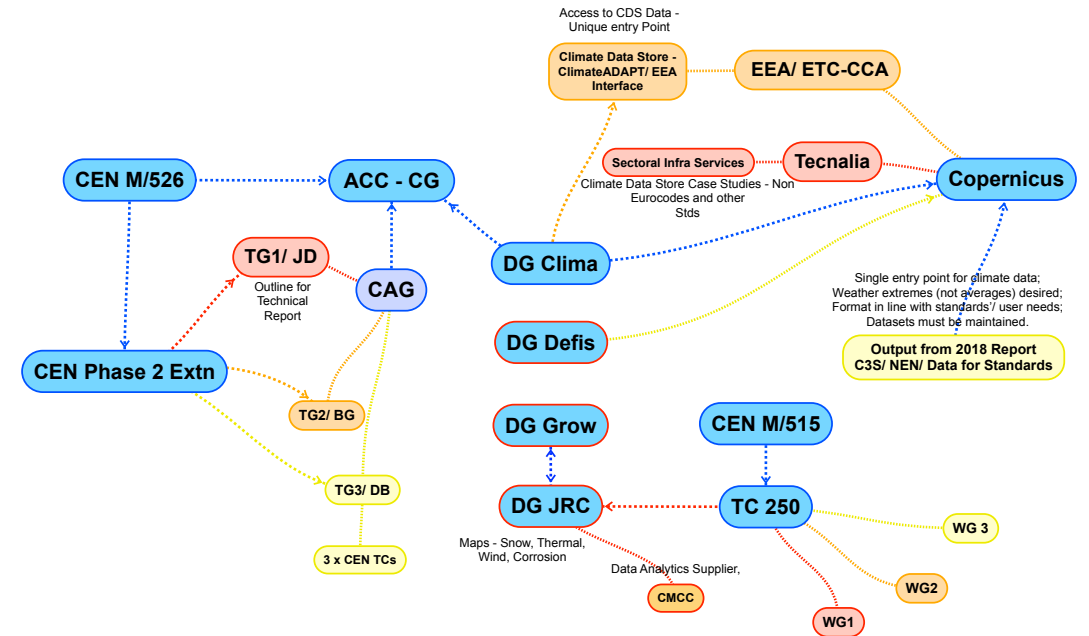
- Structural Eurocodes
 - Concentrated upon Snow, Wind and Thermal loading
- Other infrastructure standards
 - Long list of prioritised standards
 - Building, Transport, Energy sectors
- Listed in Desk Study
- Complementary to
 - EC Mandate 515
 - The framework of task SC1/T5
 - Copernicus Climate Change Services (C3S) SIS-Infra and
 - ClimateADAPT/ EEA
- Complex involvement

Recap: Complexity



Desk Study

- Some standards specify climate parameters using historical data
 - Generally 1961 – 1990 Climate – out of date!
 - Work for designers is reduced as local data is offered
 - Future – and current - climate markedly different
- Some standards require *designers* to source data
 - Then analyse averages/ extremes
 - Could mean near-current data sets are relevant
- Some standards specify climate thresholds
 - e.g. EN 1915 wind speed parameter as a design criterion for airport equipment
- Last two perhaps less 'future climate data' dependent
 - But frequency might have a bearing on continual operability of equipment
- There are many initiatives
 - Complex web of players
 - Much complementary work in progress



Technical Report

- **TECHNICAL REPORT** = A lower level document that may be converted into a Standard
- *Outline* required – covering data sources etc.
- This workshop is part of the development process
- Delivery of outline: November 2021
- Steps after this workshop:
 - Report of workshop
 - Draft outline of TR
 - Consultation by PT1
 - Deliver outline

Questions for Panel

- What guidance should be included in the Technical Report?
 - Structure guidance on what data is available for standards.
 - For whom? Users and writers?
 - What ways to access the data?
 - Interested in reliability and robustness of data?
 - Do we need to explain technical matters e.g bias correction, climate / data terms?
 - How much should it align with next generation Eurocodes?
- What about flexibility?
 - Being able to use of climate data as the science improves?
 - How to deal with in National Annexes or other guidelines?

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Thank You!

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