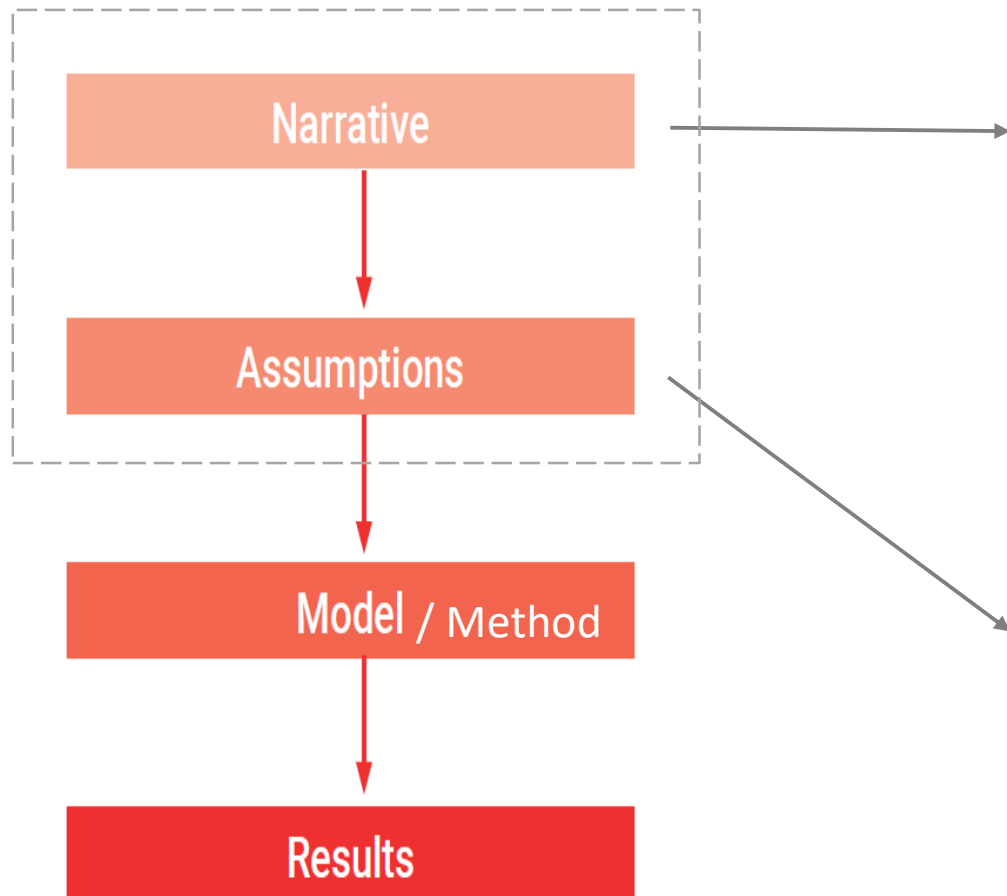


# Mapping narratives and assumptions in LTES

Pablo Carvajal – Associate Programme Officer, Clean Energy Transition Scenarios, IRENA

**26 March 2020 – 2<sup>nd</sup> LTES International Forum**

## Main parts of a scenario



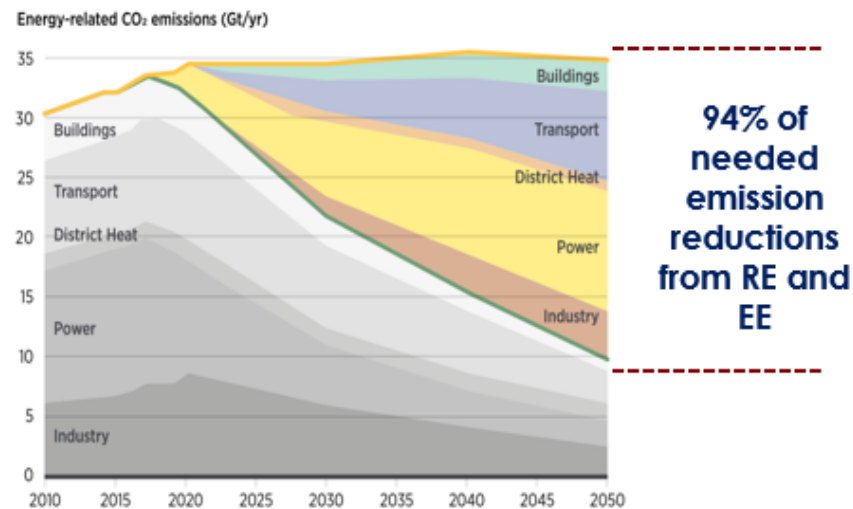
- Qualitative – “Storyline”
- Structured determinants – e.g. political, economic, social,
- Specific to the system
- Framework that gives the quantitative assumptions meaning
- Formed through stakeholder consultation at varying levels.

- Quantitative variables - the evolution defined beforehand
- Only meaningful in the context of the narrative.
- Assumptions driving energy demand – population and economic growth.
- Assumptions driving energy supply – availability of energy resources and the costs of energy conversion technologies.

- **Policy imperatives**

- Sustainable Development and Economic Growth (SDGs)
- Climate and Environmental agenda (Paris Agreement)

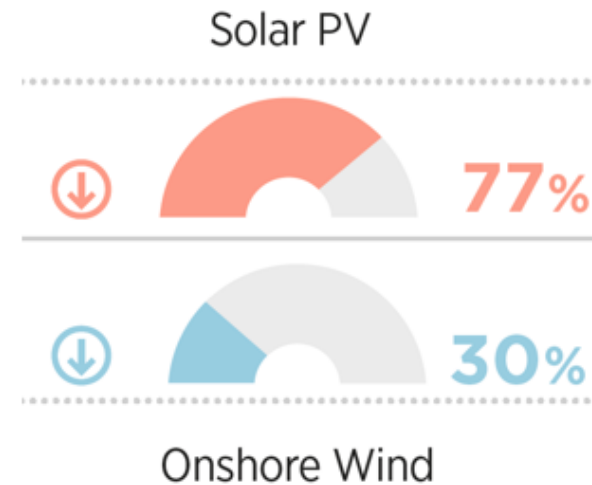
Annual energy-related CO<sub>2</sub> emissions and reductions, 2015-2050 (Gt/yr)



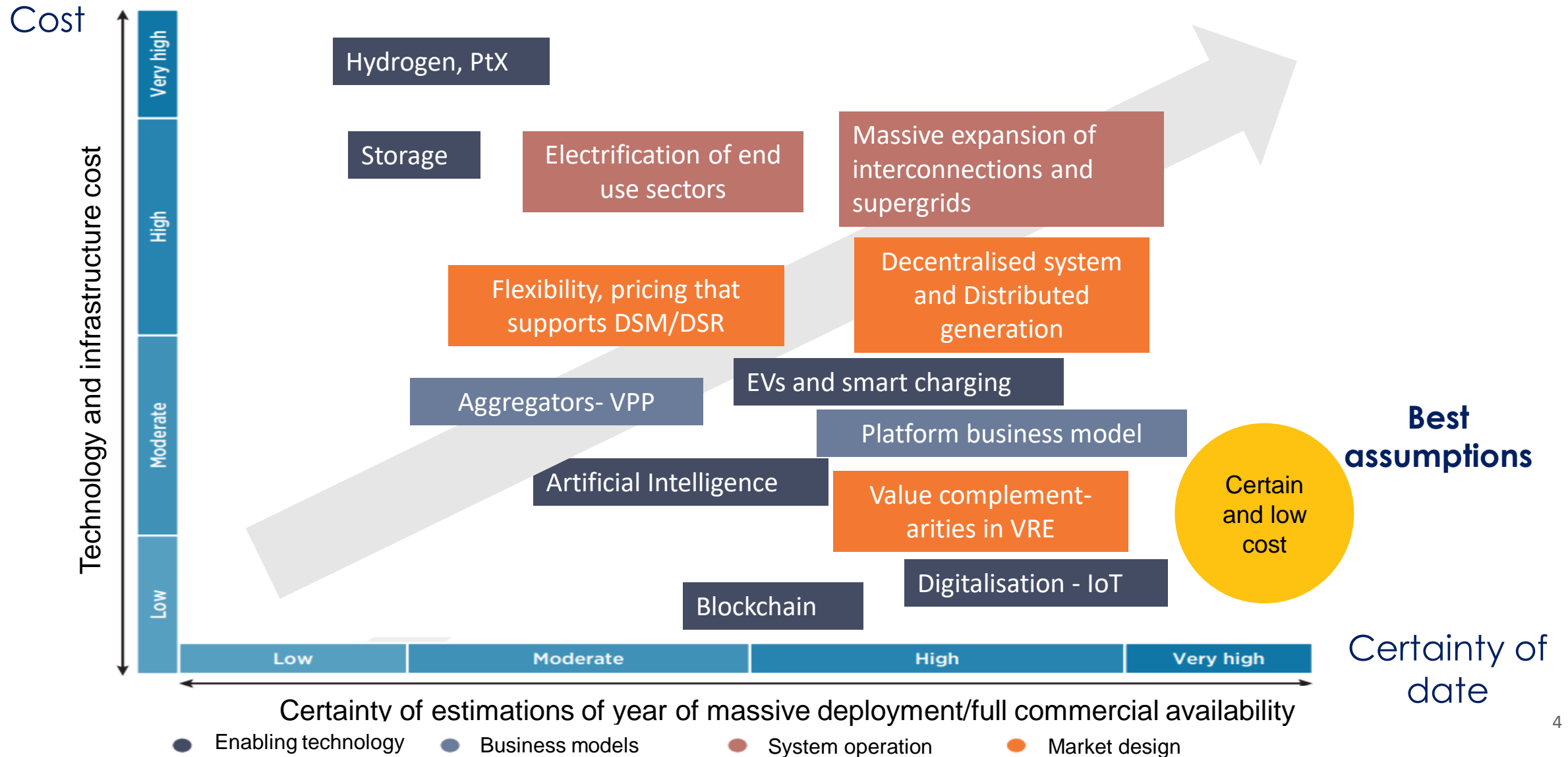
- **RE Strong Business case**

- Policy frameworks, business and technology innovation
- Dramatic cost reduction

Cost reduction (2010 - 2018)



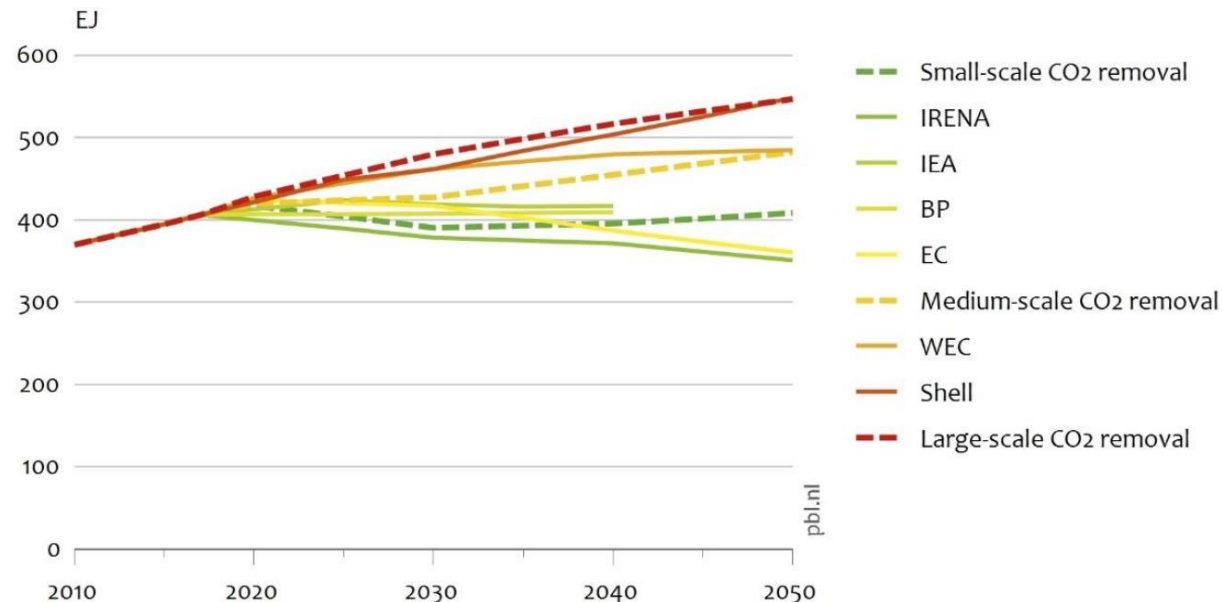
# Assumptions – Energy System Innovation: scoping cost and time?



## “Exchanging experience on long-term energy scenario comparison”



### Global final energy demand



### Focus

- What can we learn from *scenarios comparison studies*?
- What are the *key interests* and what are the *main divergences* when comparing scenarios?
- Can we facilitate *systematic reviews* on scenario comparison and the *assumptions* behind them?

**Thank you.**

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