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CARIBBEAN CENTRE FOR RENEWABLE
ENERGY & ENERGY EFFICIENCY

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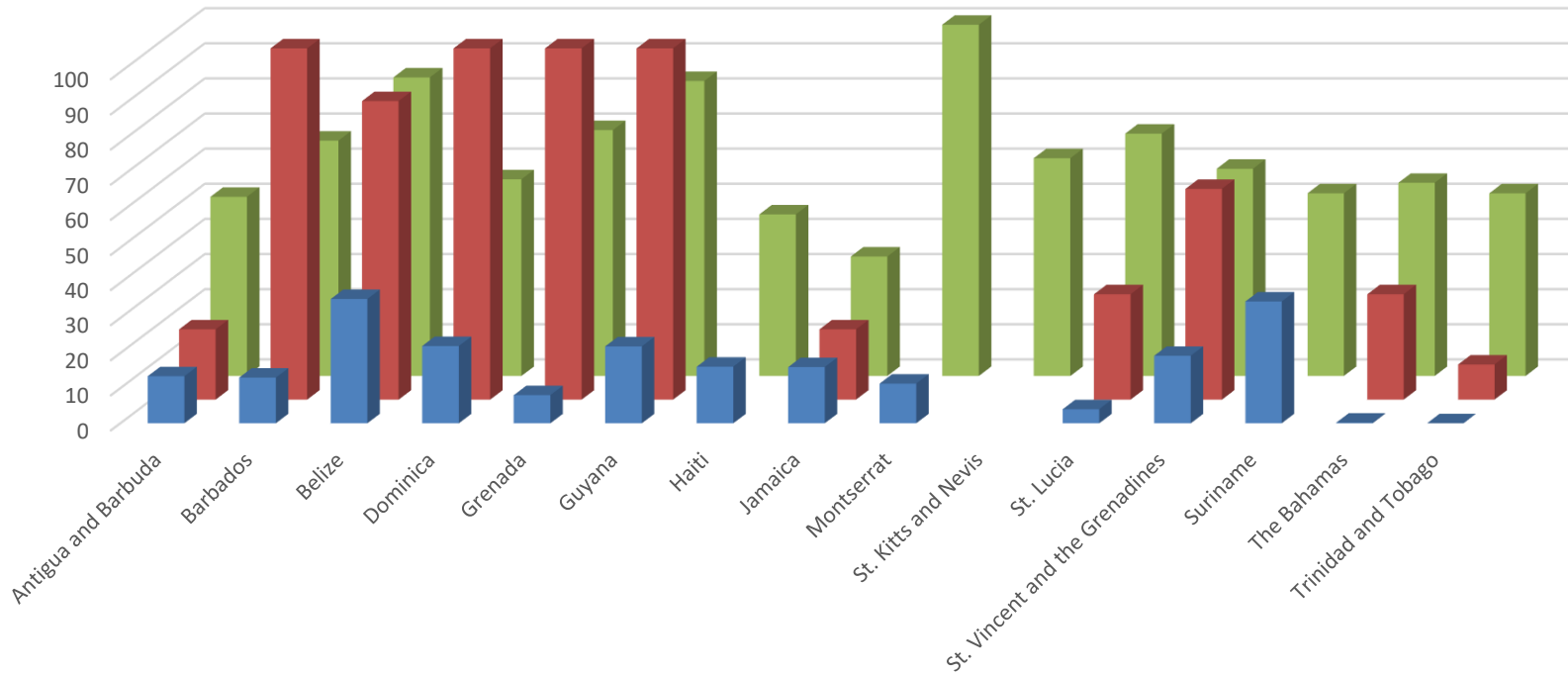


Integrated Resource and Resilience Planning

March 11, 2021



Renewable Energy as a Percentage of Installed Capacity



■ 2019 Performance
 ■ National Target
 ■ National Target by 2027 (Proposed by C-SERMS)

Vulnerability and Hazards

Climate Vulnerability (Long Term, Seasonal and sub-seasonal)

- Temperature
- Wind Profiles
- Humidity
- Precipitation
- Insolation

Geophysical Vulnerability

- Flooding
- Landslides
- Erosion
- Volcanology and/or seismic activity

Hazards

- Sahara Dust
- Air quality
- Optical depth



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Supply and Demand

Generation

- Reciprocating
- Combine Cycle GT
- Single Cycle GT
- Wind
- Hydro
- Solar

Transmission

- Lines
- Structures
- Sub-stations
- Storage

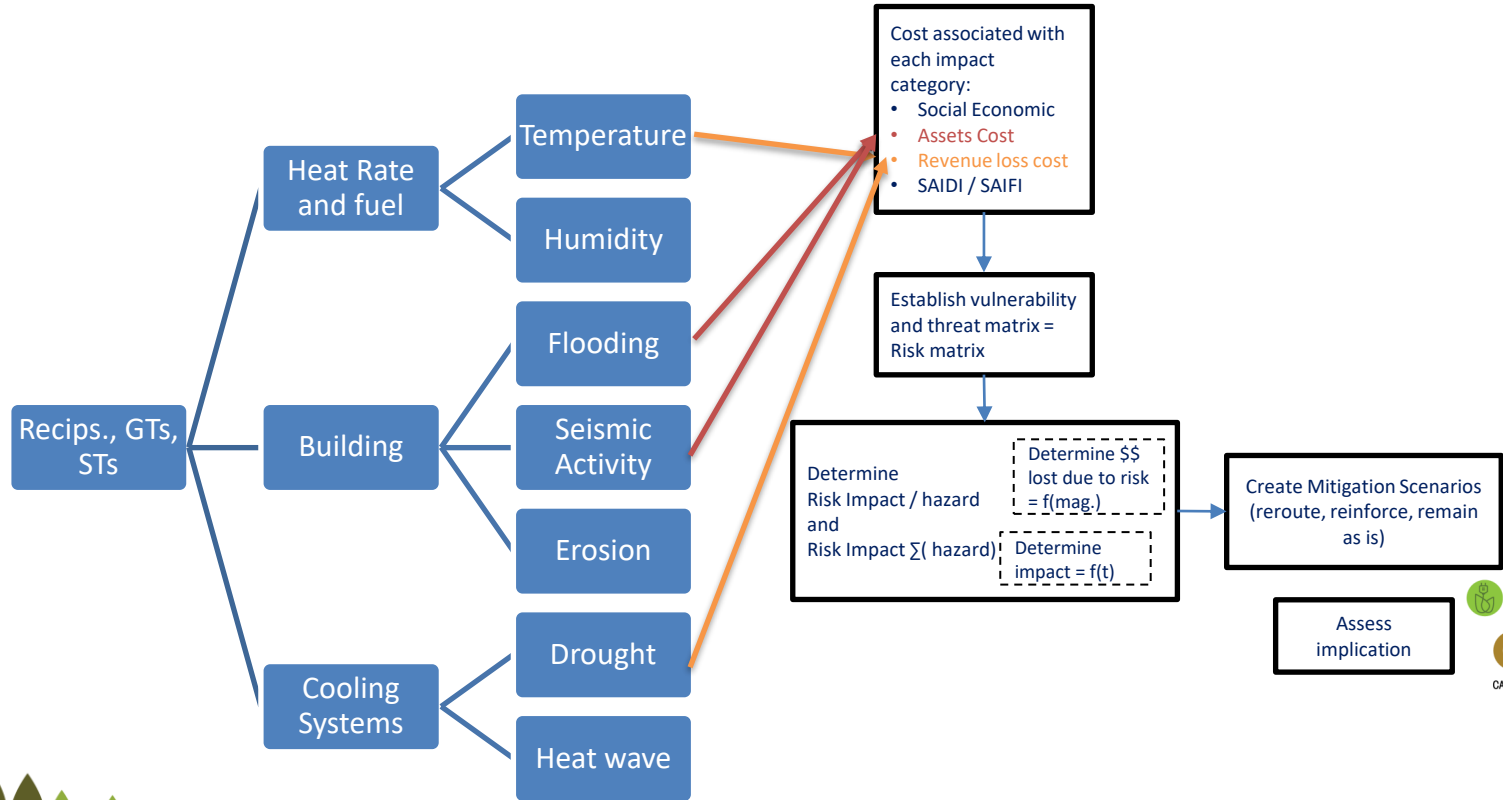
Distribution

- Lines
- Poles
- Transformers
- Storage

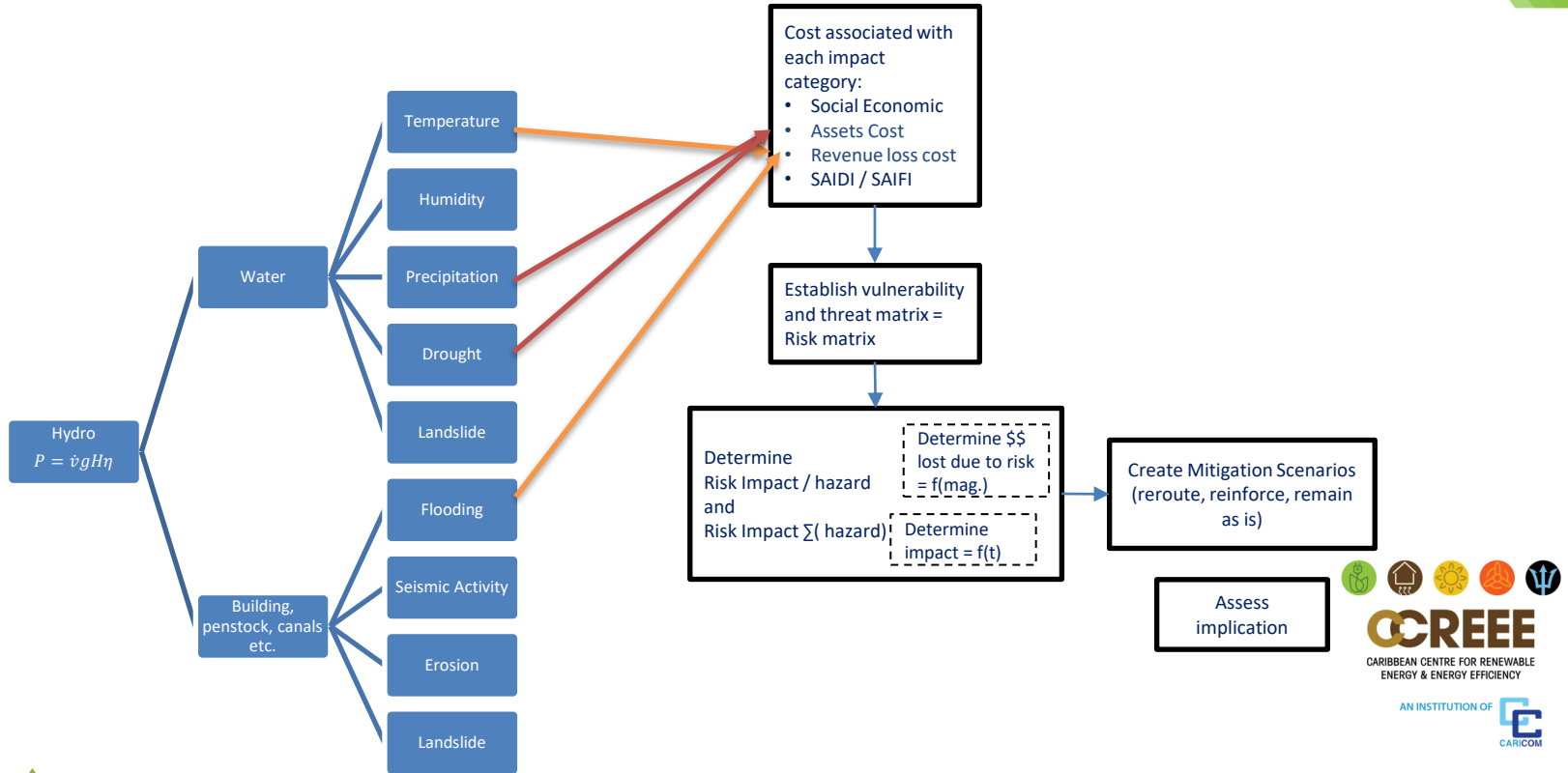
Demand

- Building envelope
- Equipment
- Lighting

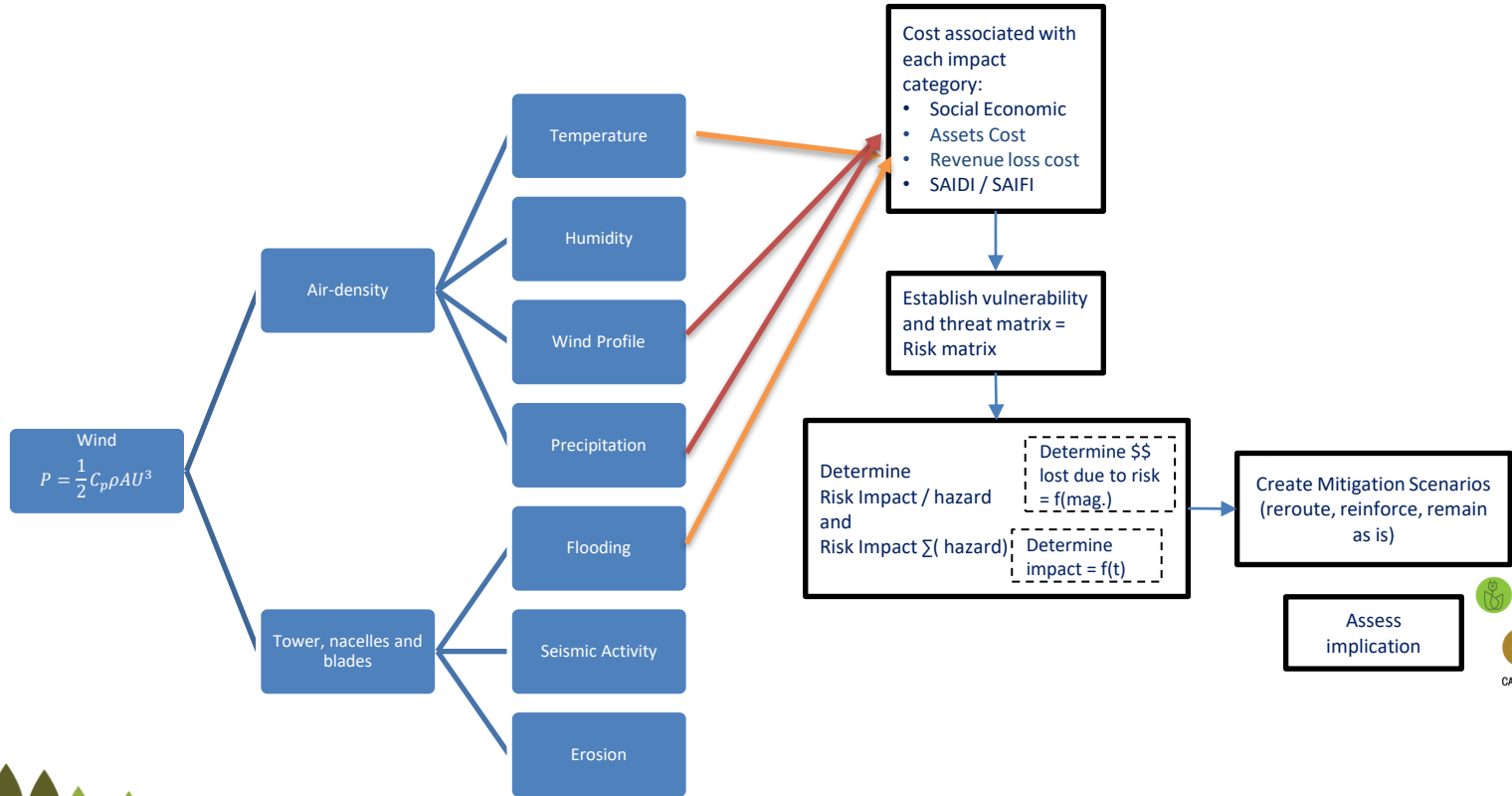
Conventional Generators



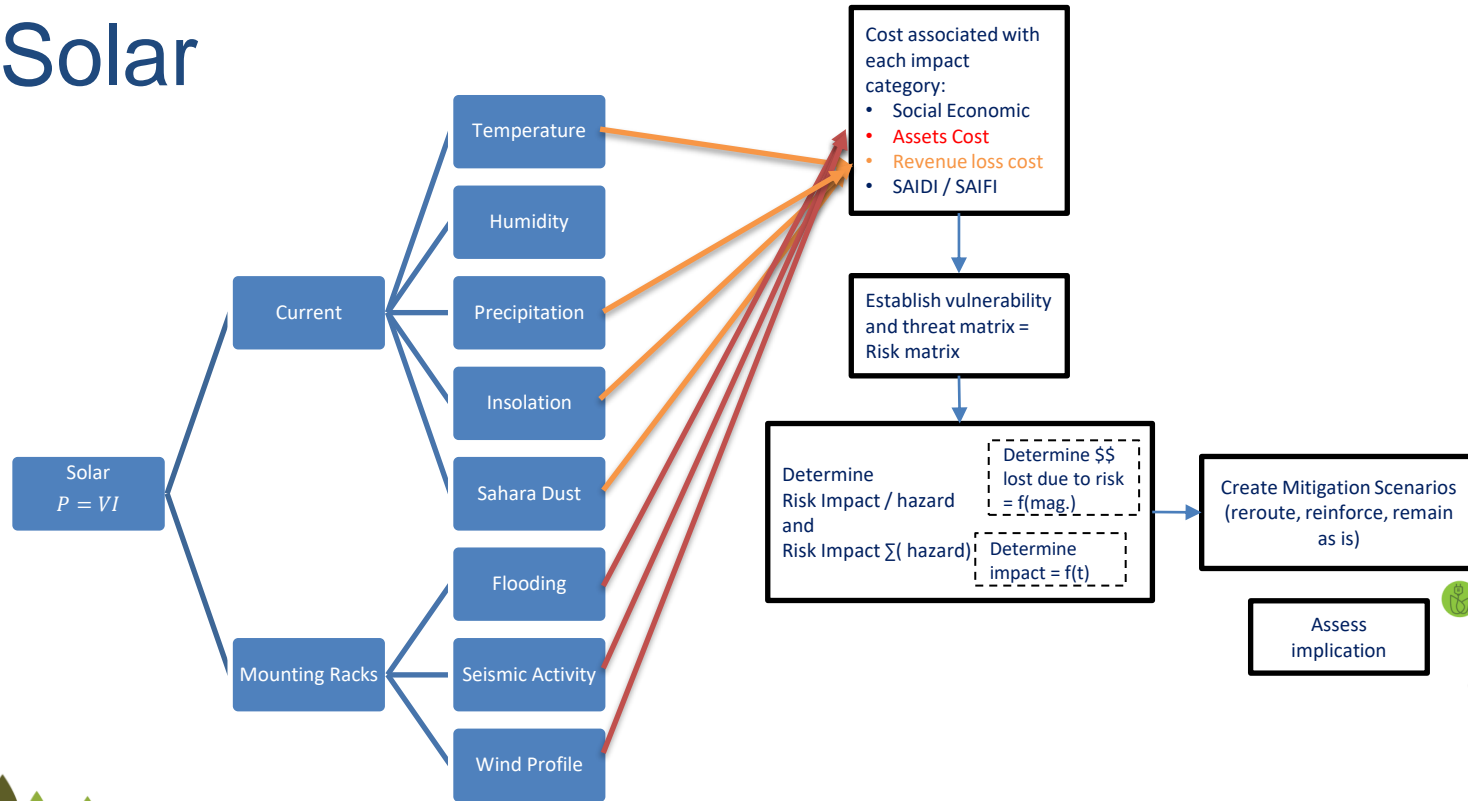
Hydropower



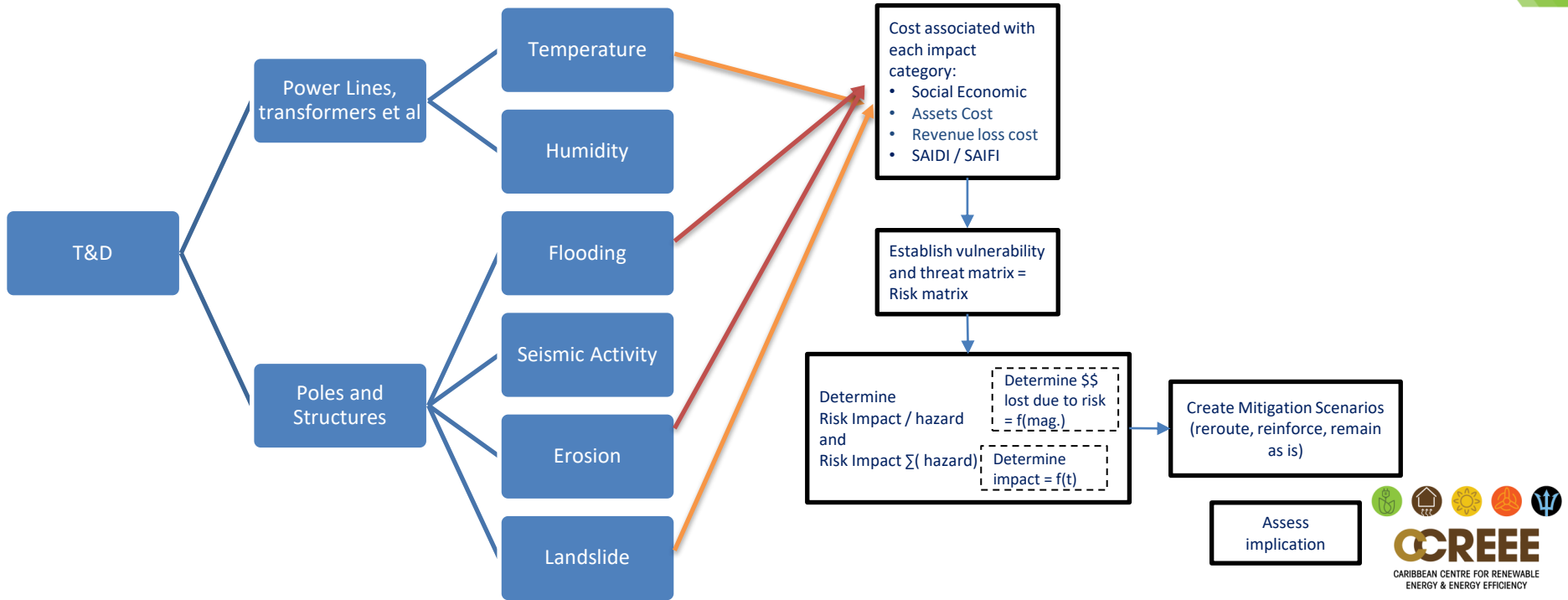
Wind



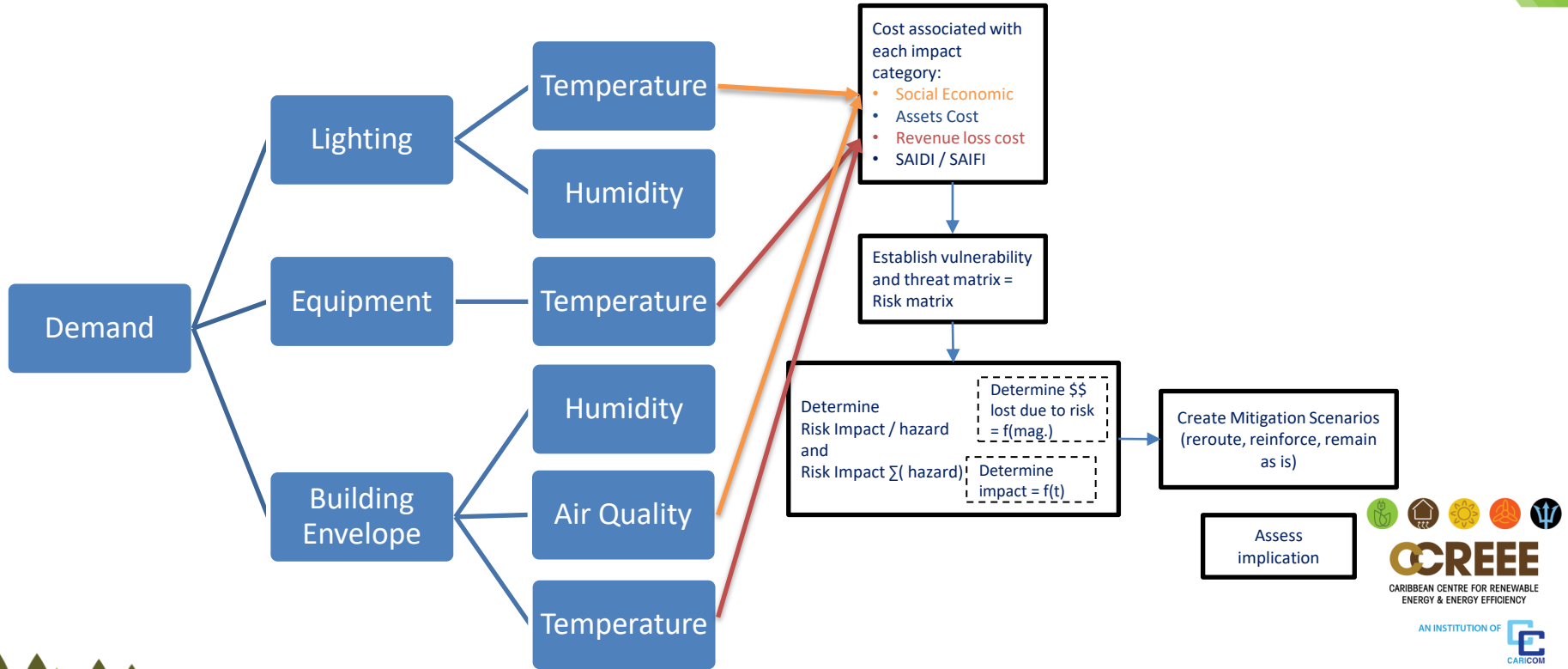
Solar



Transmission and Distribution



Demand



Thank You



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