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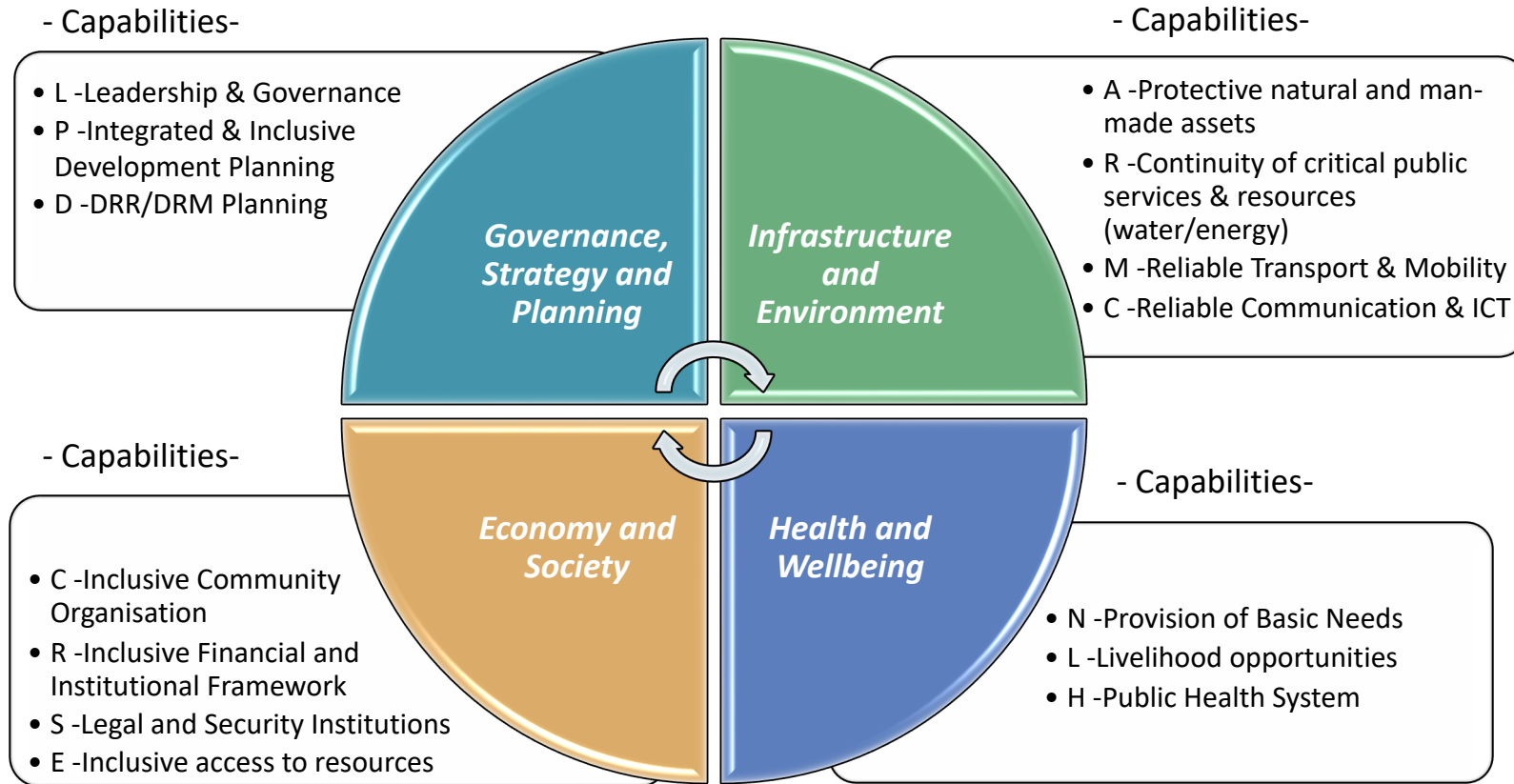
Community Energy Resilience Decentralized Systems in the Maldives

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A Resilience Assessment Framework

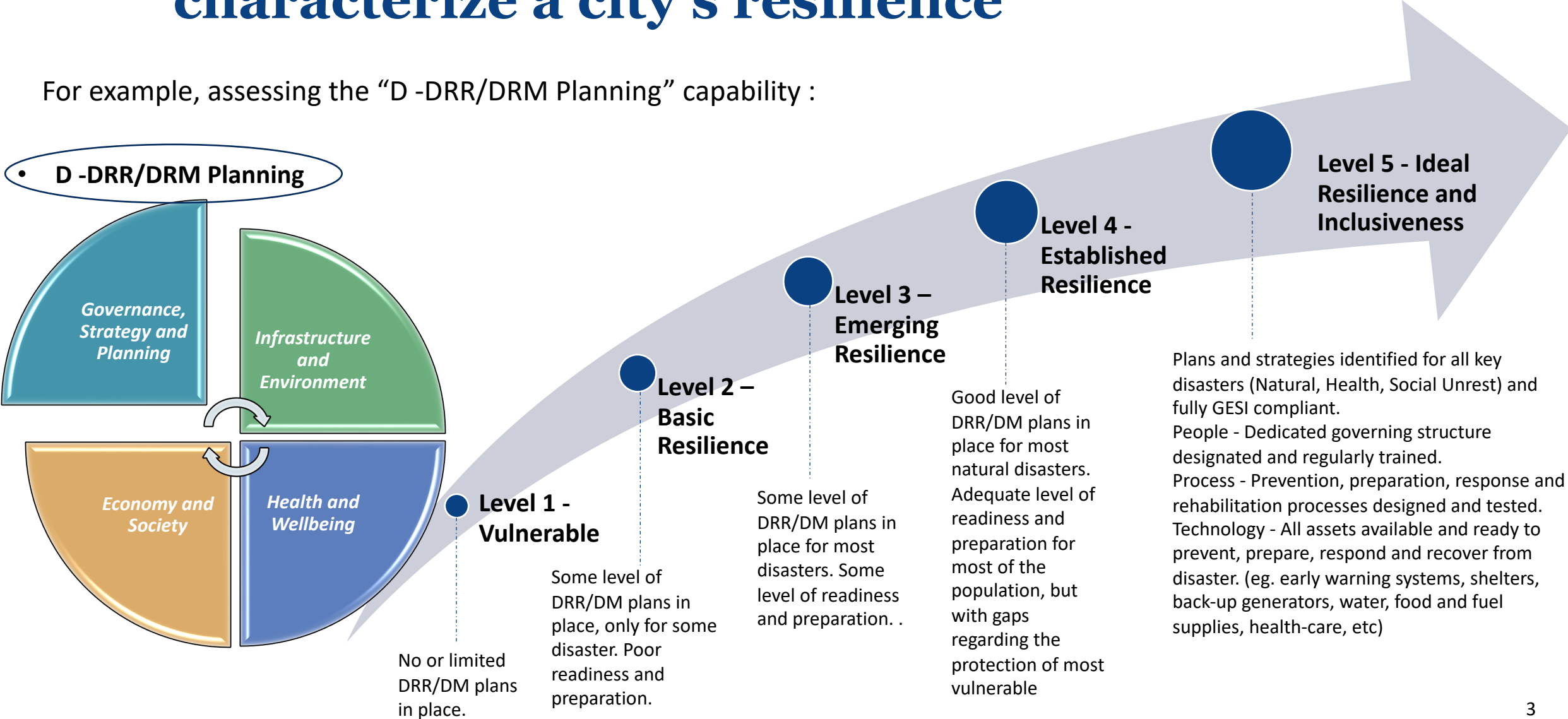


- The framework^(*) identifies 4 dimensions of resilience.
- For each dimension, the framework recognizes key capabilities to be considered while assessing the resilience and inclusiveness of a City or community
- Assessing the maturity level of each capabilities for a city will identify the key strengths or areas of improvement to attain an adequate state of resilience and inclusiveness.

(*) adapted form the ARUP and Rockefeller Foundation City Resilience Framework

Five maturity levels & criteria identified to characterize a city's resilience

For example, assessing the “D -DRR/DRM Planning” capability :



Aims

- Meeting a minimum of 70% of the daytime peak load demand in more than 160 outer islands.
- To reach 30 MWp of solar photovoltaic, 12.5 megawatt-hours (MWh) of energy storage, and modern energy management systems.
- Additional financing for solar PV-based ice-making factories for fisheries, and RE-based passenger ferries for marine transport.
- These systems to be managed by the Women Development Councils.

Achievements

- The project has installed 24.5 MWp of solar PV, 8 MWh of battery energy storage systems (BESS), 27 MW of energy-efficient diesel generators, and renewable energy-ready grids in 70 inhabited islands across eight atolls. (As of June 2023.)
- The project has achieved fuel savings of 25% per hybrid system.

POISED: Achievements ...

- **Beneficiaries:** Communities disadvantaged due to remote locations
- **Career guidance for students:** on renewable energy studies in schools conducted for grades 8–12 on all 160 islands.
- **Women in technical jobs.** Fenaka and STELCO trained and hired 1368 women utility officers to manage the systems.
- **MSME:** 49 training and information sessions conducted on reducing tariffs, to off-peak or shoulder rates, for micro and small enterprises led by women.
- **RE and Energy Efficiency awareness:** Workshops conducted with Women Development Councils, NGOs, and female government officials.
 - A total of 113 community outreach programs have been implemented with more than 50% women's participation
- **Community development opportunities enhanced**
- **Inform the Maldives Energy Road Map**

Preliminary Resilience Assessment (Thaa Atoll and Noonu

* Economic benefits * Improvement in services
* Health and Wellbeing * Decentralised Governance *
Inclusion and Empowerment

- *The project potentially contributes to building the resilience of the island communities and the opportunities to reduce the vulnerabilities identified are well within the scope of the project.*

Thank You!!!

