

Mayotte	374 km² In size	270 000 inhabitants
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3. Industrial Energy Management
Switch to local generators or shift activities for few hours to relieve the power grid.

2. Collective self-consumption / Energy communities
Decentralization of renewable energy production and empowerment of citizens.

1. Virtual power plant
Centralized management of plants: Optimised clustering and dispatching of production to meet the balancing requirements.

4. Residential Energy and flexibility services
Use capacity of residential consumers/producers to adapt their electricity consumption profile.

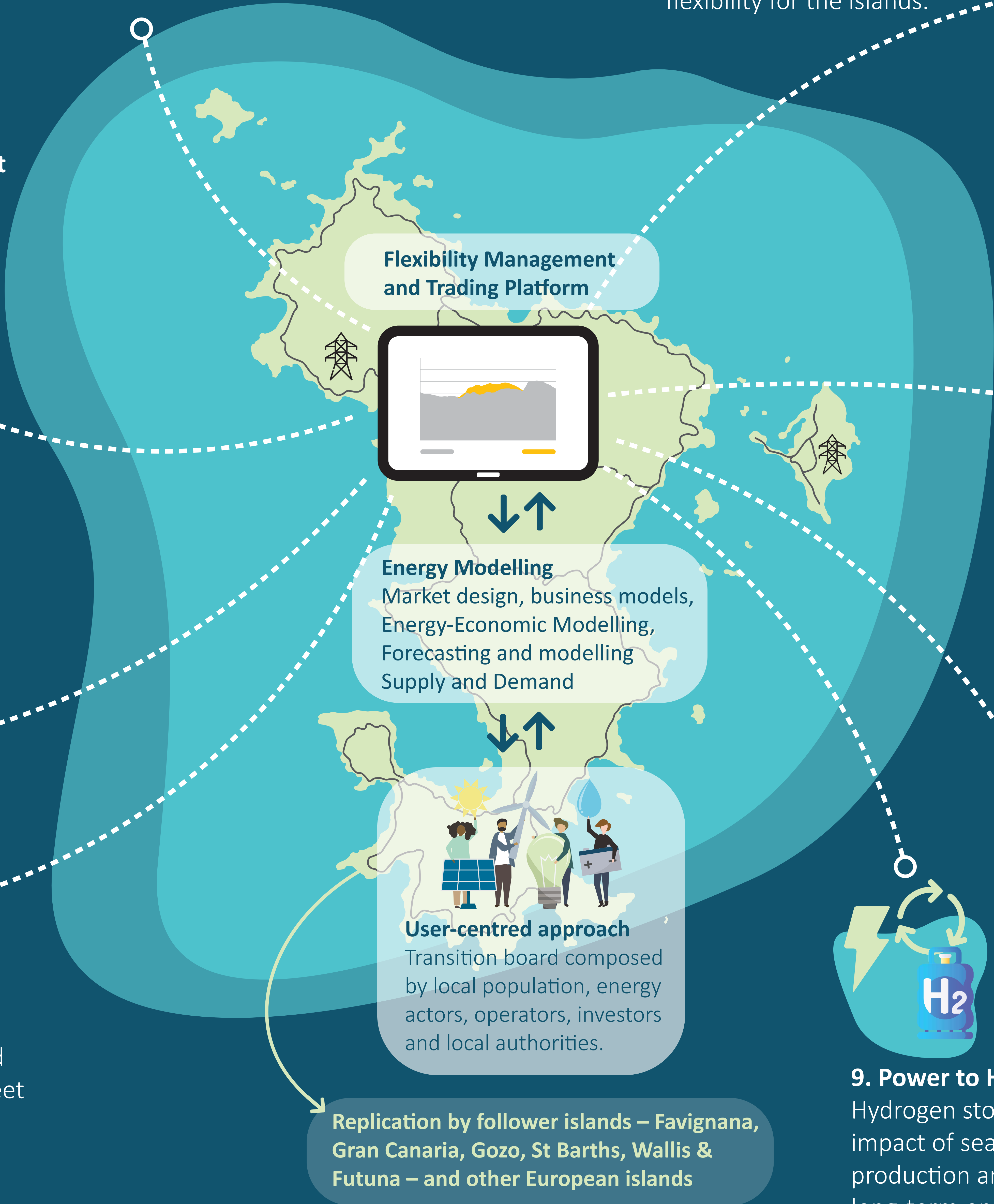
5. Smart Charging/V2G
Vehicle-to-Grid (V2G) and bidirectional power flow from EV batteries to unlock an important new source of flexibility for the islands.







6. PV production for EV charging
Higher levels of solar self-consumption for lower emissions in the transport sector.

7. Technologies to provide virtual inertia
Technologies to improve power grid stability.

8. Short-term Battery Storage
Efficient way of storing energy from the grid.

9. Power to Hydrogen
Hydrogen storage will mitigate the impact of seasonal variations in production and demand through long-term energy storage.



-  Enhancement of the power grid stability ↗
-  Full decarbonization of the transport sector in Mayotte by 2040 ↘
-  Reduction of GHG emissions of 60% in 2030 ↘
-  Green tourism development in Mayotte by 20% ↗
-  Increasing the percentage of access to electricity by more than 30% ↗
-  5 follower islands with in-depth replicability studies ↻

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Greening the islands
GTI Application