



UN CAS CONCRET, LE PROJET AVEC SINGAPUR SUR LA VILLE DURABLE

Mr. Pablo Viejo, General Administrator of EDF Lab Singapore

Rencontres de HANOI – L'expertise française a Vietnam

AGENDA



1. The offer of EDF
2. The project with HDB
3. Conclusions



THE OFFER OF EDF

EDF OFFER TO THE CITIES AND REGIONS



EDF intends to play a key role on the deployment of solutions for sustainable cities:

Increase attractiveness : Increase quality of life of citizens, returns for the investors and improve the infrastructures

Improve resilience : Economical to local or global crisis, physical for external events on infrastructures and social to changing context environments

Sustainable and smart growth : Create dynamic economies coherent with environmental requests and integrate the best innovations for a participative and communicative city

EDF OFFER TO THE CITIES AND REGIONS

Providing value to the client

- Integrated comprehension of the city
- Project and visualize in order to optimise investments and communicate
- Support and partnership from design concept to operation

Why EDF?

- Energy experts on cities
- Tradition of long term partnerships and investments
- Increasing presence on energy services



THE PROJECT WITH HDB

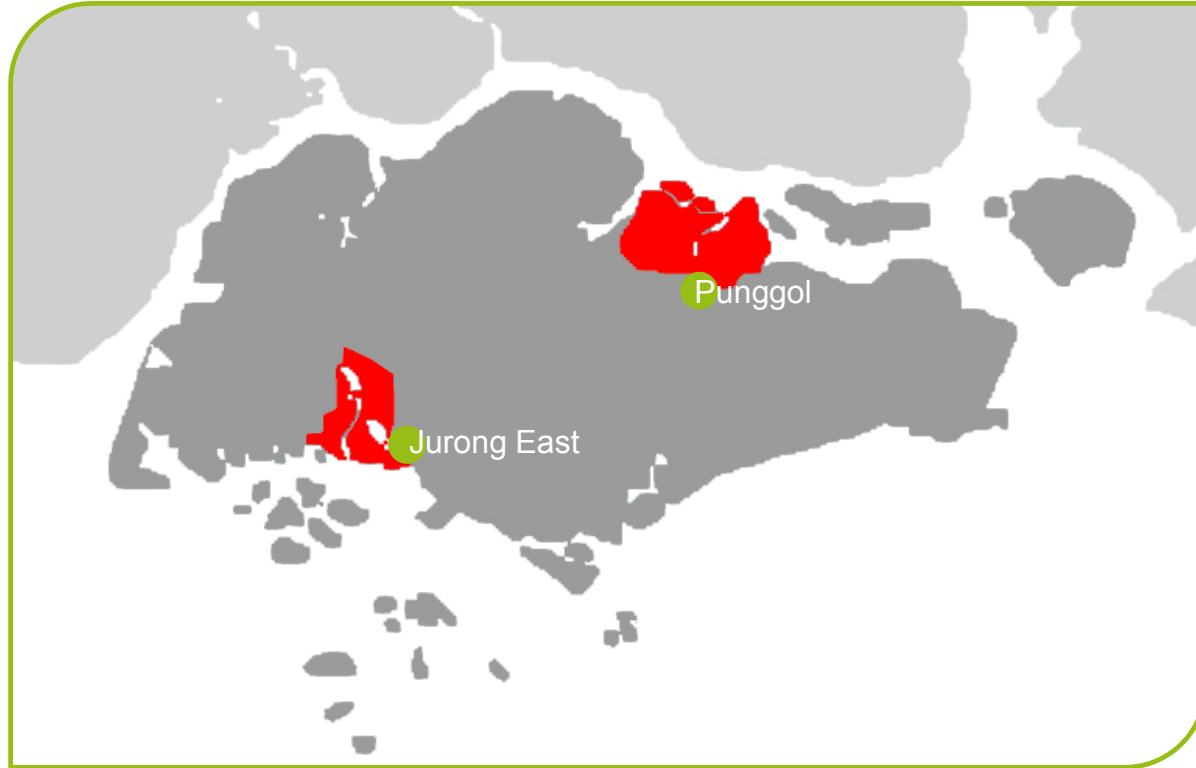


GENERAL INFORMATION

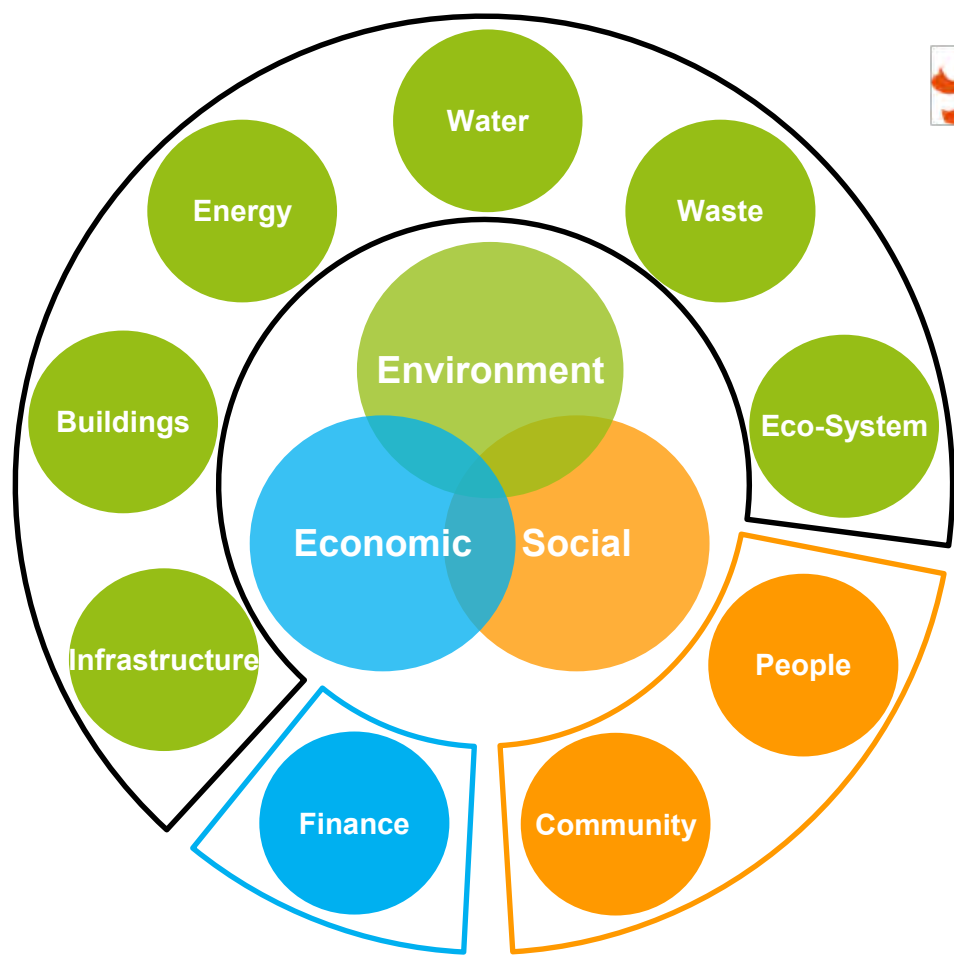


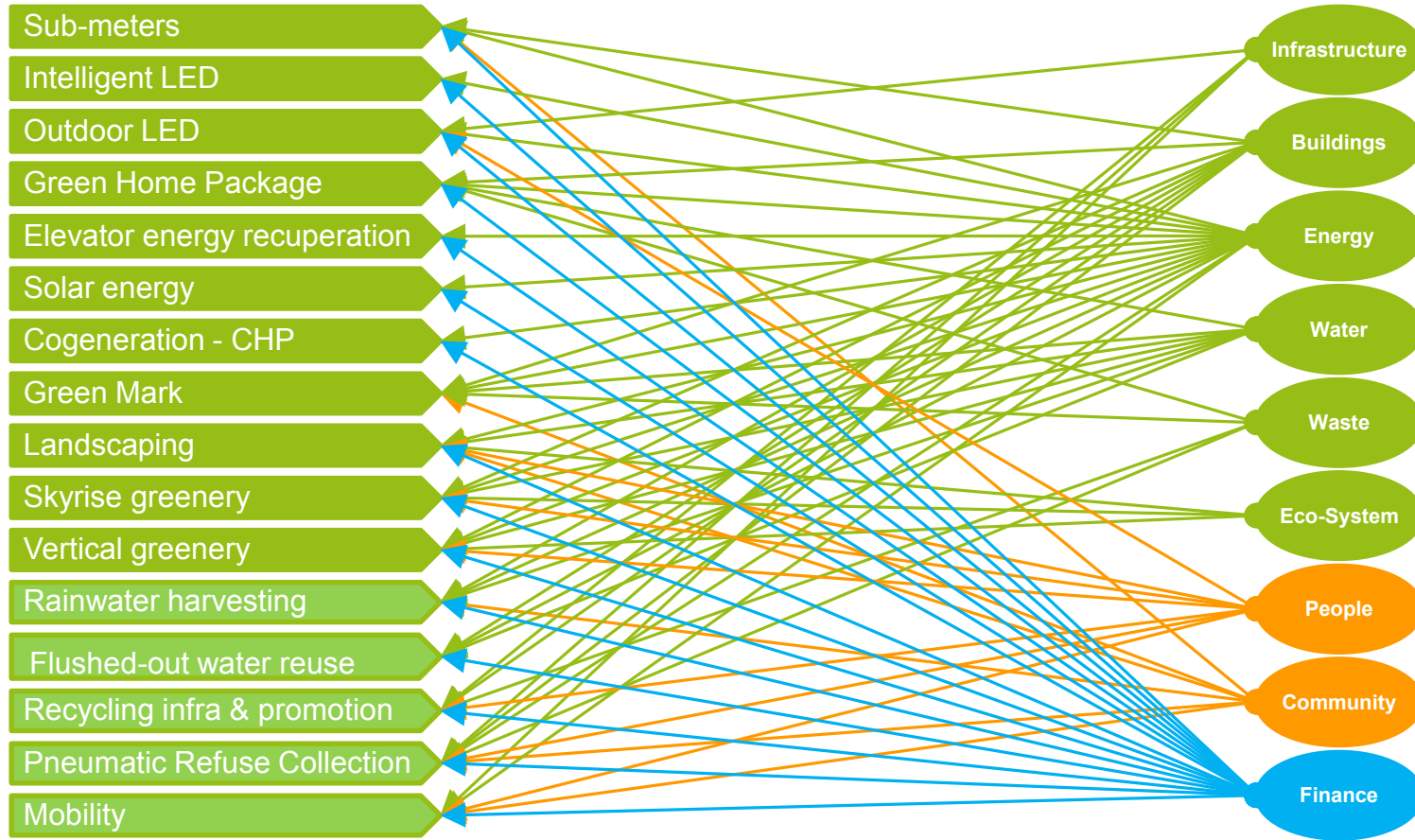
- Agreement between the Housing Development Board (HDB), EDF and VEOLIA on sustainable urban planning
- HDB is the Singaporean agency, under the Ministry of National Development, in charge of the residential public buildings in Singapore. 83% of Singaporeans live in an HDB building.
- Singapore is one of the most recognize cities of the world on its sustainable cities approach.
- First contacts between EDF and Singapore began in 2011.
- EDF and VEOLIA joint efforts and signed an MOU at the World Cities Summit in Singapore in 2012
- The final agreement was signed in June last year at the World Majors Forum 2013 in Bilbao, Spain

STUDY AREAS



- Sub-meters
- Intelligent LED
- Outdoor LED
- Green Home Package
- Elevator energy recuperation
- Solar energy
- Cogeneration - CHP
- Green Mark
- Landscaping
- Skyrise greenery
- Vertical greenery
- Rainwater harvesting
- Flushed-out water reuse
- Recycling infra & promotion
- Pneumatic Refuse Collection
- Mobility





DELIVERABLES

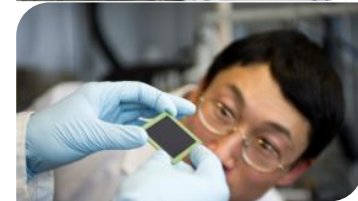
City Application and Visual Interface



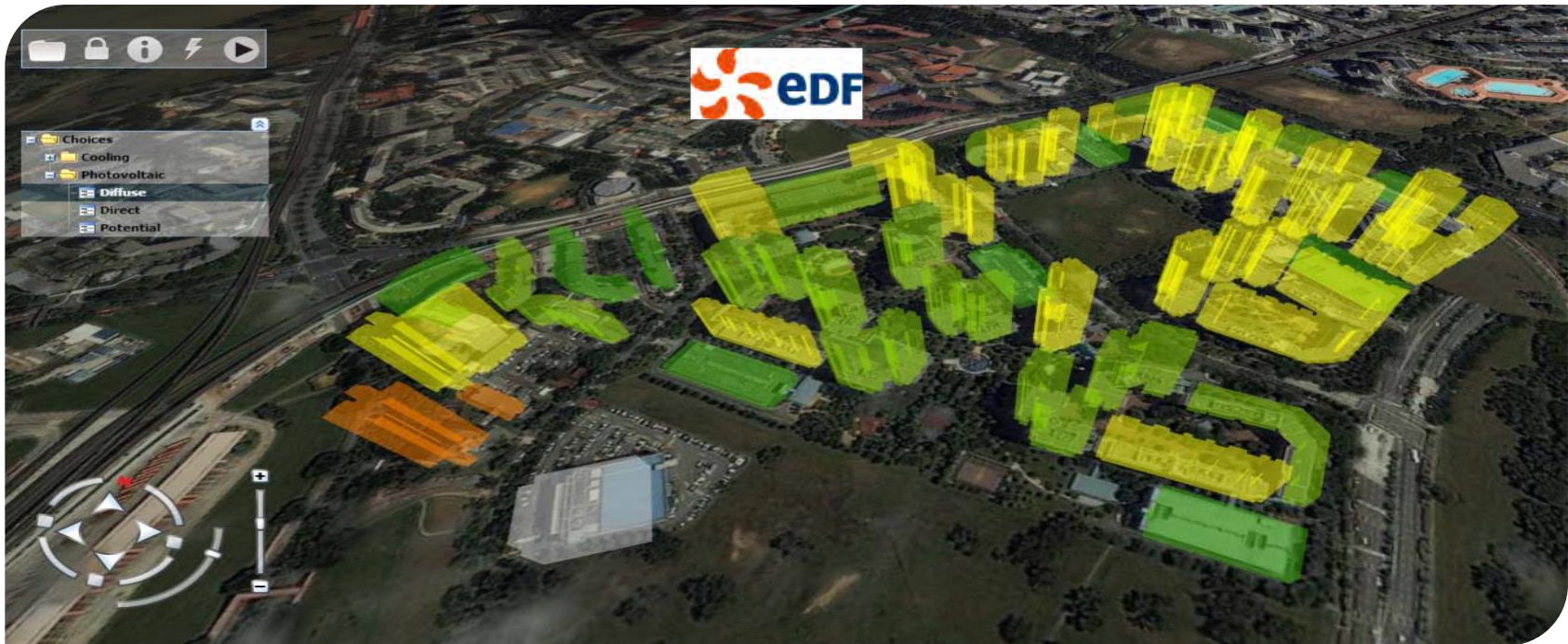
Reports



Expertise



3D DECISION MAKING ON THE FLY





CONCLUSIONS

CONCLUSIONS



- The agreement of HDB with EDF and VEOLIA is the first large scale project of EDF on Sustainable Cities outside France and, simultaneously, a demonstrator of the integration of long term in-house expertise and the latest technologies to better answer the demand of forward looking cities and regions
- The EDF platform will allow HDB to make autonomous decisions with support from field experts and valorise the results through 3D visualization and reporting
- The establishment of EDF Lab Singapore, remark the engagement of EDF on long term partnerships with cities, and the continuous innovation on solutions for cities worldwide.

THANK YOU FOR YOUR ATTENTION

