

Mitigation Enabling Energy Transition in the MEDiterranean region



In partnership with



A 3.1.3 - Solutions for improving water-energy nexus in buildings



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Agência para a Energia



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The water-energy nexus & climate adaptation activity programme

Methodology

- Residential, small service or commercial buildings
- 3 dimensions
 - Water efficiency
 - Water-energy nexus
 - Climate adaptation

Case studies

- Identification of buildings:
 - Jordan
 - Morocco
 - Algeria
- Baseline
- Apply the methodology

Results

- Classification
- Identification of measures
- Instalation of measures
- Monitoring

The Water-Energy Nexus & climate adaptation methodology

Assesses three dimensions: **Water Efficiency**, **Water-Energy Nexus**, and **Climate Adaptation**, providing a transversal performance analysis that allows for the consideration and adoption of water efficiency and climate adaptation measures.



Water Efficiency

- Water Sources and Networks
- Outside Uses
- Fixtures Efficiency
- Washing Machines
- Domestic Hot Water



Water-Energy Nexus

- Alternative Water Sources
- Water Distribution and Network
- Irrigation
- Swimming Pool
- Fixtures
- Washing Machines
- Domestic Hot Water
- Energy Monitoring



Climate Adaptation

- Local Strategy and Policies
- Project Area
- Project Response

Jordan pilot buildings

Public Administration

Iskan Al-Faiha'a
primary mixed school
Madaba governance/
South east of the
capital Amman



3 floors
11 administrative rooms
725 students/ 30 classrooms

Residential building

Flat – Basement floor
/Al Jubeiha – Amman



Built in 2015
5 floors with an area
of 300 m² / floor

Morocco pilot buildings

Public Administration

Street El Machaâr El
Haram, Issil, Marrakech



Built in 1980
3 PV systems
1 Solar termal

Residential building

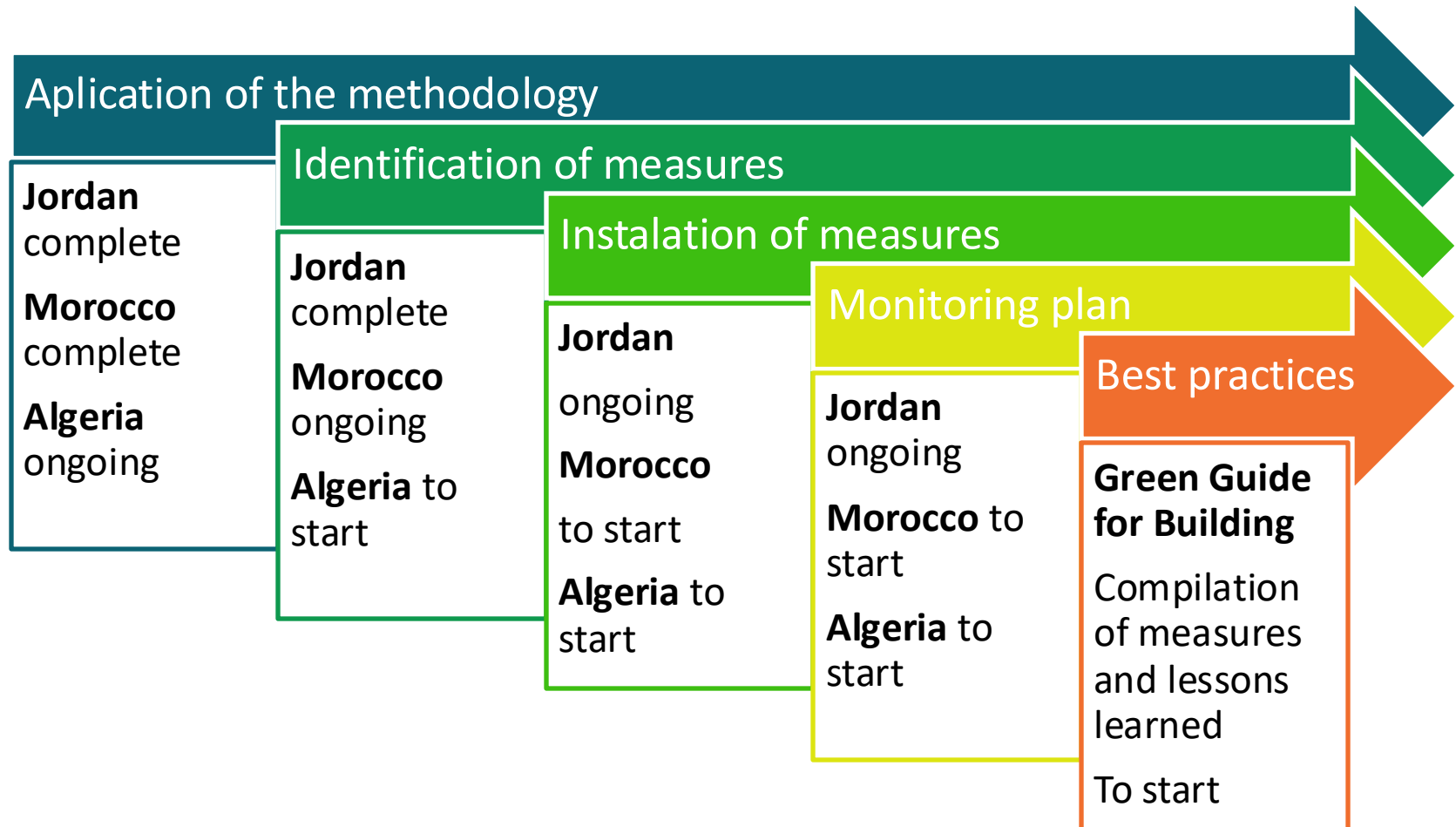
Rabat

Building Apartment
for 4 persons



Note: *The residential
pilot was changed
during the execution
of the project*

Status and next steps



Thank you for your attention