

**SUSTAINABLE
PLACES**

Energy Communities in Practice: The What's and the How's Workshop

Day 2 | Wednesday 28th October | 14.00 - 17.00



Compile

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Compile : Community Power in Energy Islands

➤ Aims:

- Deploy + develop **Renewable Energy Communities**
- Successfully **deploy technical tools**.
- **Integrate** all the **actors**
 - citizens, local government, energy companies

➤ Energy islands in 5 pilots, 5 countries

- Portugal, Spain, Slovenia, Croatia, Greece
- Investigating various **levels of maturity** of energy communities
- Looking both at:
 - **technical** aspect and
 - **social engagement**.

➤ <https://www.compile-project.eu/>



@Compile_H2020



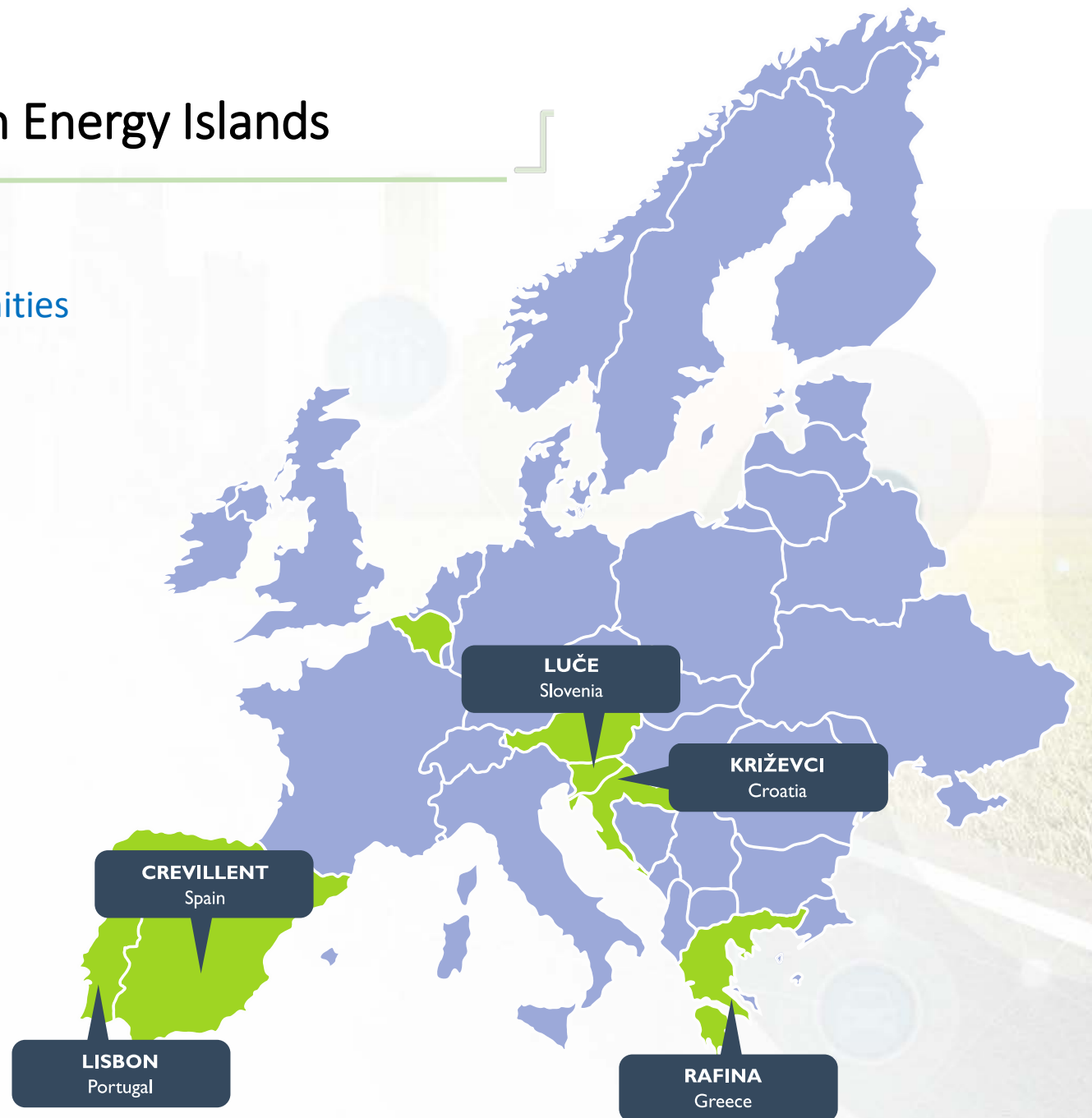
www.compile-project.eu



CompileH2020



Compile Project

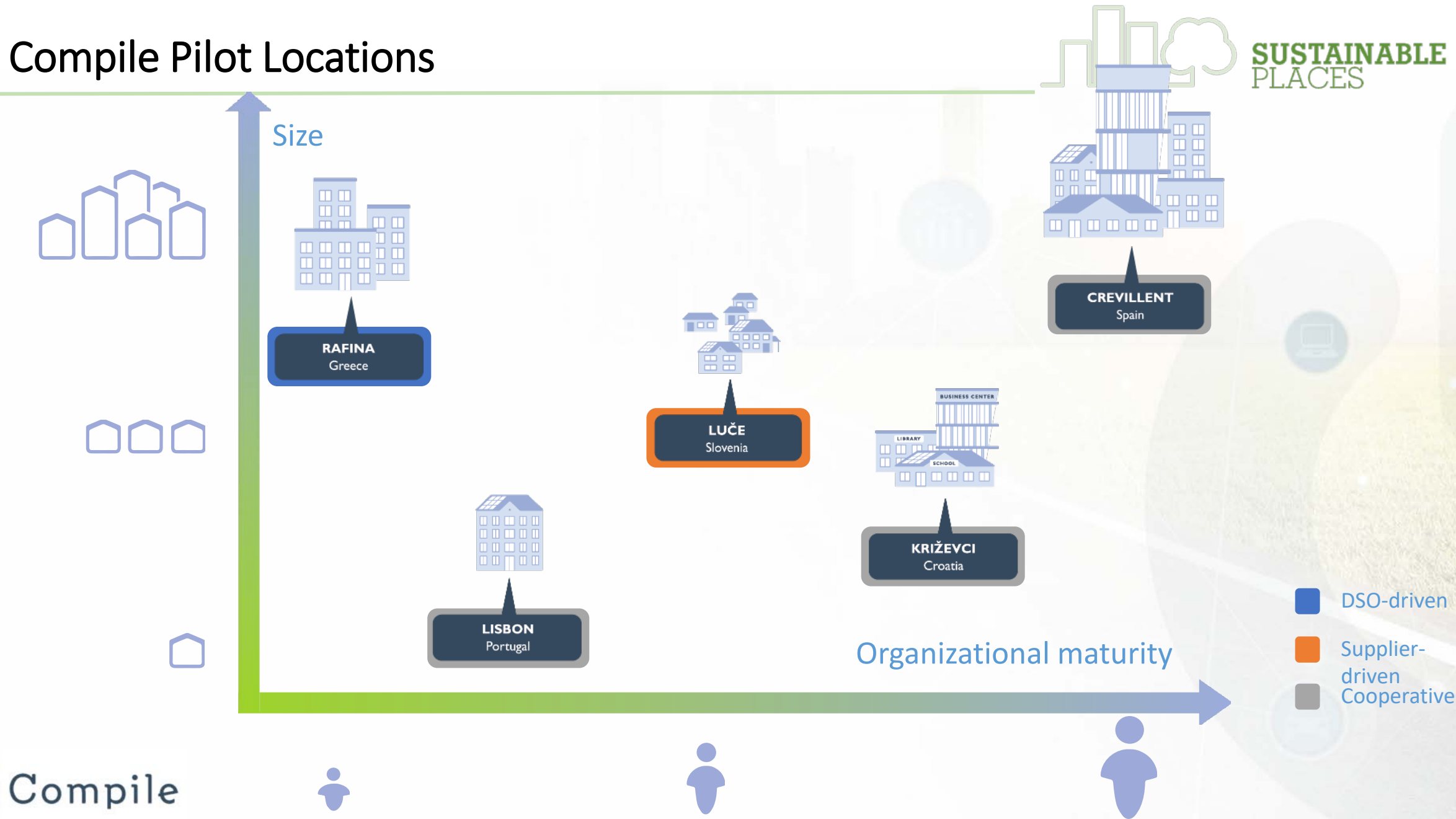


This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement N° 824424.

COMPILE at a glance...



Compile Pilot Locations



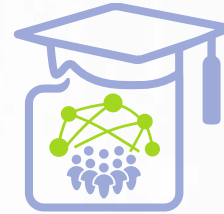
Tools developed in COMPILE

Creation tools



Value tool

Business
Model and
Value analysis



CoolKit

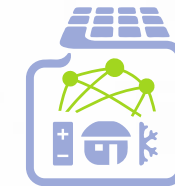
Energy
Community
Toolkit

Technical tools



GridRule

Control and
manage the
microgrid



HomeRule

Building
Energy
Management
system



EVrule

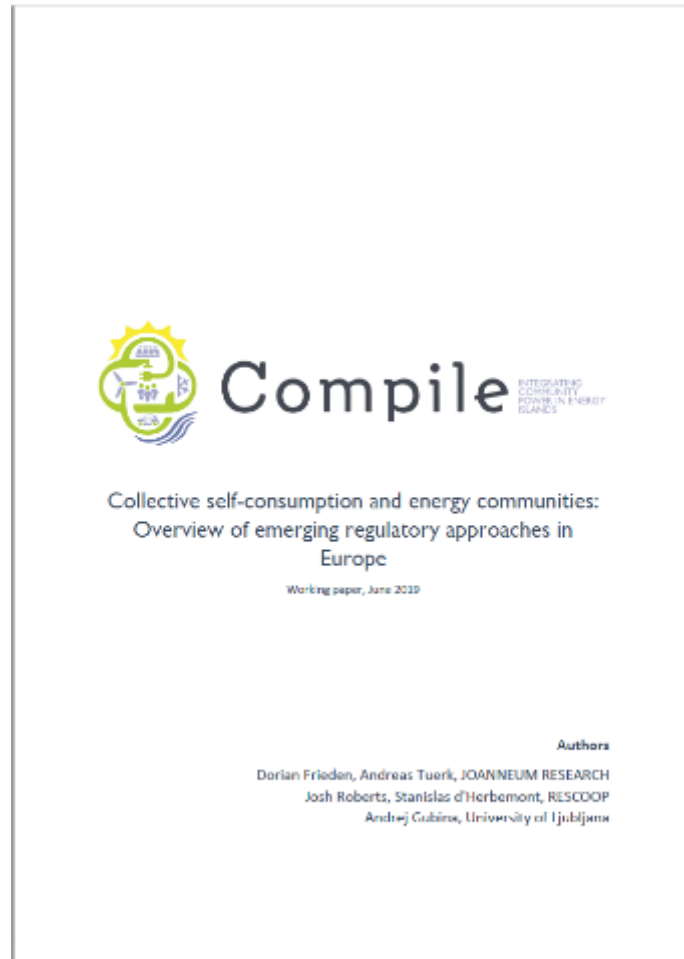
Electric
Vehicle
management
platform



ComPilot

Virtual
Community
platform to
sustain the
community

EU and national regulatory framework overview for CSC

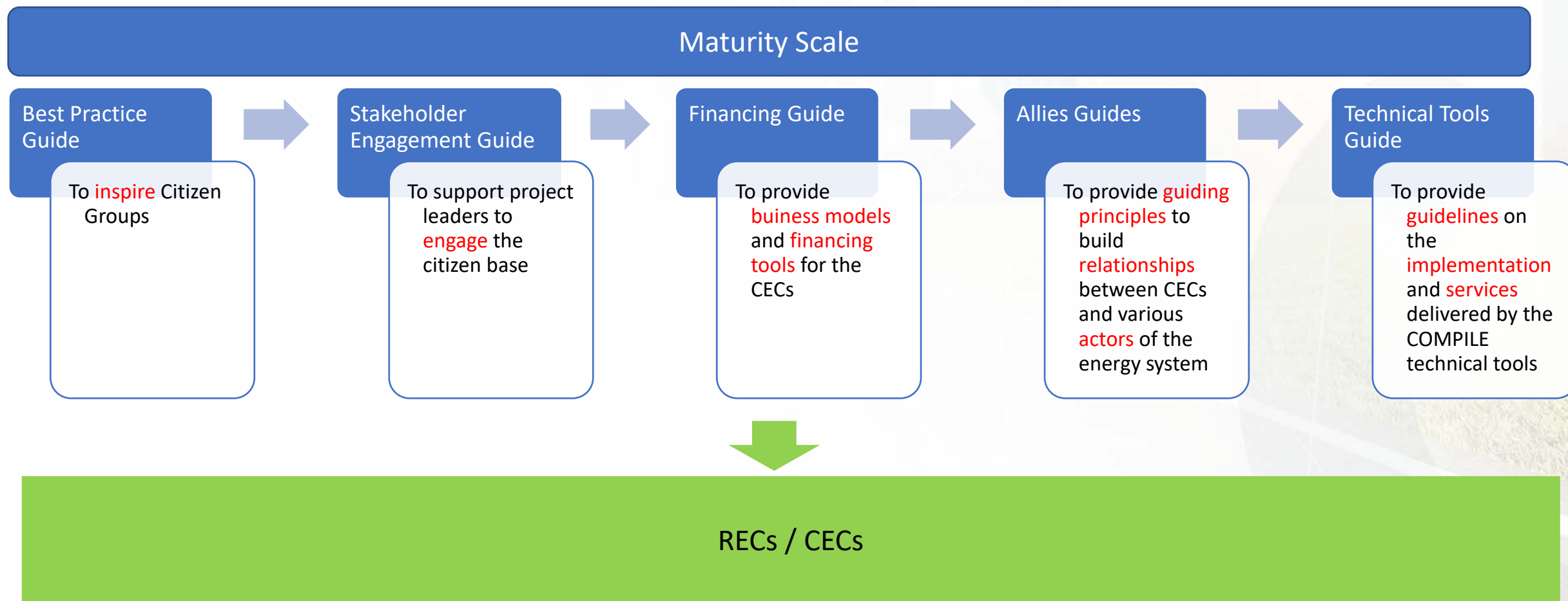


- Elaborated in form of scientific paper (not as report/deliverable)
- 250+ downloads
- Good feedback from market actors, policymakers
- Invitations to present the paper at conferences

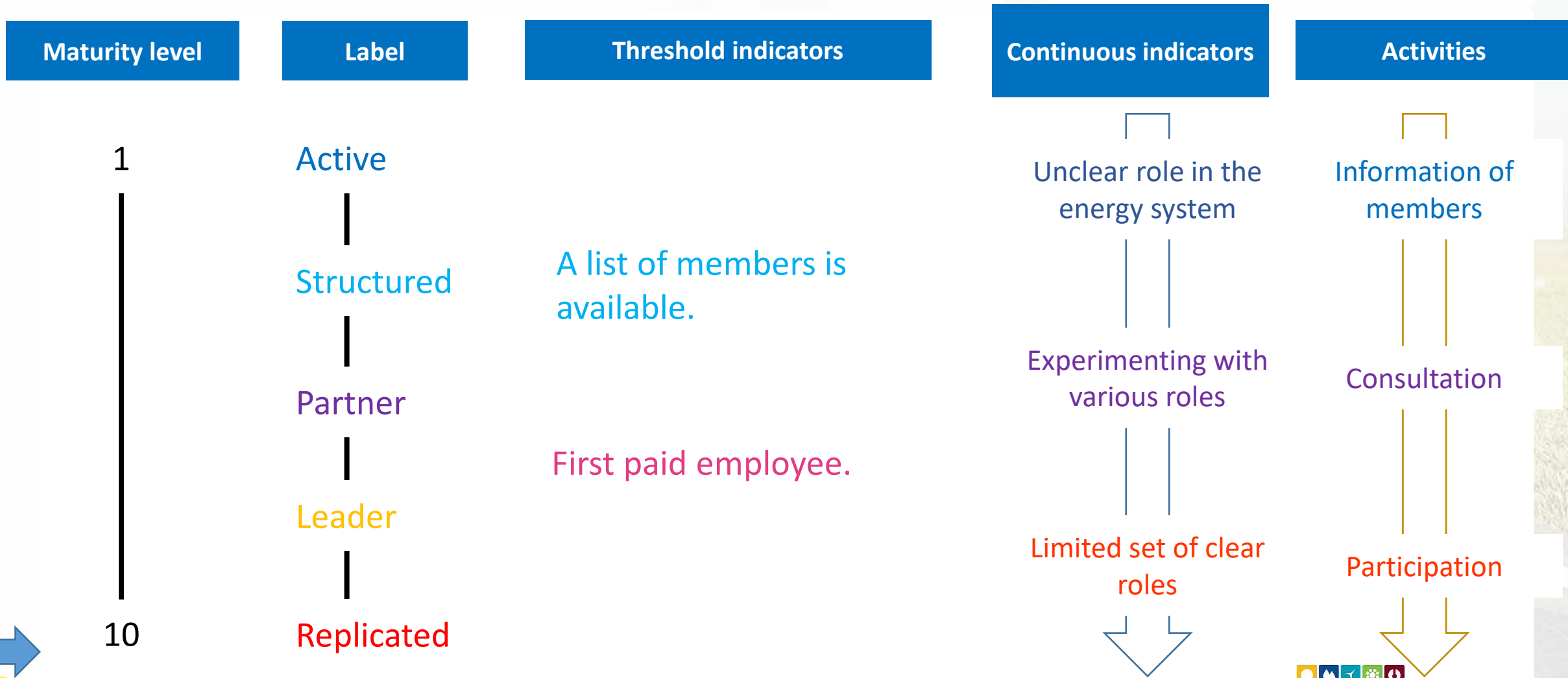
Available at:

<https://www.compile-project.eu/downloads/#>

Community building tool: The Toolkit



Maturity scale: Indicator logic



Best Practice Guide

The guide covers **services** EnC can provide.

The goal: to provide **inspiring examples**.

Each service is illustrated by

- several concrete **examples** and with
- a contact point to get **support** if needed.



Stakeholder Engagement Guide



Centred around **governance** principles.

The goal: provide **implementation** examples of the **governance models**

Each principle is illustrated by an example.

The guide also includes **experiences** and methods developed during the project

Principle 1 - Voluntary and Open Membership

Principle 2 - Democratic Member Control

Principle 3 - Member Participation

Principle 4 - Autonomy and Independence

Principle 5 - Education, Training and Information

Principle 6 – Cooperation

Principle 7 - Concern for Community

Financing Guide



Each model is illustrated by a concrete example.

The guide also includes **standard calculation sheets** for RES projects development.

Collective Action Schemes

- Coop
- Collective purchasing
- Collective self-consumption
- PPA
- Municipalisation
- Grants

Financing Tools

- Self-Financing
- Crowdfunding / Crowdlending
- Traditional Bank Loans
- Ethical or “non-traditional” bank loans
- Joint Ventures
- Cooperative funds
- Leasing
- Micro-donations
- Energy Performance Contract



Allies Guide(s)

Municipalities	DSOs	Market Actors
<p>Three building blocks:</p> <ol style="list-style-type: none">1. Documentary review bringing together existing resources for municipalities2. Concrete examples of collaboration between energy communities and municipalities3. Interviews of the municipalities working with the COMPILE project.	<p>The guide will contain:</p> <ul style="list-style-type: none">• A Debunking document / literature review including field and project experience.• Interviews with DSOs about concrete and successful experiences.	<p>This guide will be for Supplier / Producer / BRP / Aggregators</p> <ul style="list-style-type: none">• Goal: to support the understanding and build relationship between a market actor and an CEC.• Focus on the business models and business cases (collective action schemes).

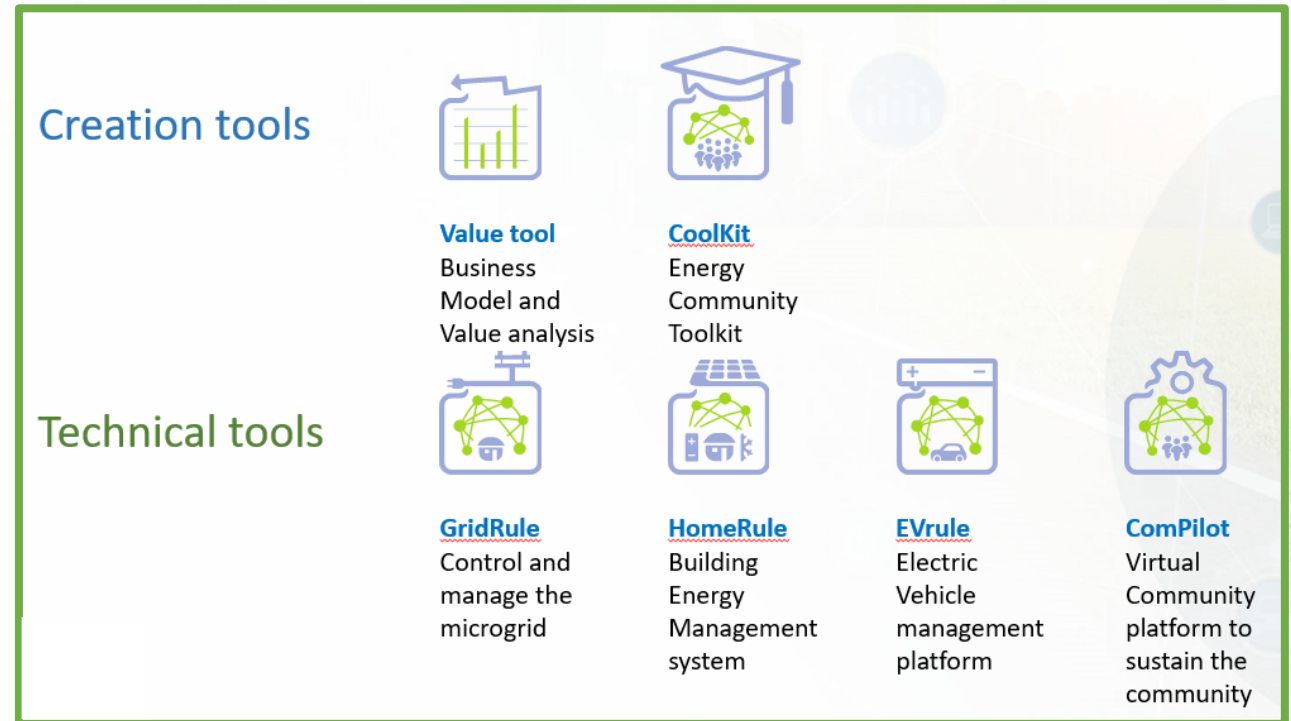


Technical Tools Guide

Goal: Facilitate an easy and correct **adoption** of the COMPILE tools by community projects

Sections

- System architecture
- Tools description
- Requirements and implementation
- Operability
- Next Steps



Stakeholder Analysis

Pilot leader performs **analysis of stakeholders** present on the territory

Train the trainer

Pilot leader organises an **information and training session** for the leaders of the local community.

EnC Creation process

Pilot leader **mobilizes local citizens** to create an EnC centered around an **energy project**, supported by COMPILE Tools.

Train the Trainer Workshops



Social impact of EnC creation

- Evaluation of **various social impacts** through specially designed questionnaires
- Analysis will be carried out **periodically every year** to track the progress
- The questions cover **different social aspects**:
 - **Environmental** awareness,
 - **Solidarity** between community members,
 - **Inclusion** of vulnerable groups,
 - Energy **efficiency** of the EnC members,
 - Understanding the **energy system** and **billing**,
 - **Security** and **privacy** issues.



Upscaling and replication

- Identify **concrete benefits** for the local communities.
- Set up of a **large-scale replication group** insights into
 - the needed adjustments and
 - contextualisation for a large-scale roll out
- Develop a **concrete roadmap** for European and national **policymakers** enriched through international cooperation.



Before



Križevci, HR:
Installed CF PV plant
on TP

After



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