



Legal Implementation and Digital Enablement of Energy Communities in Europe – Insights from the FlexBIT project

www.cetp-flexbit.eu

Christina Karatrantou, Pavlos Tyrologou, Nikolaos Koukouzas, Gaetano Zizzo, Pio Alessandro Lombardi,
Dimitrios Papadaskalopoulos, Tomasz Sikorski, Przemysław Janik

Date: XX.XX.2025

Overview

- EU Legal Context & Motivation
- FlexBIT Project Objectives
- Methodology
- Key findings – Legal Implementation
- Barriers and Opportunities
- Impact & Policy Recommendations





EU Legal Context & Motivation

- Directives (EU) 2018/2001 (RED II) & 2019/944 establish RECs and CECs.
- Key provisions: decentralisation, energy sharing, local governance.
- Energy communities support renewable targets, energy democracy, and inclusion





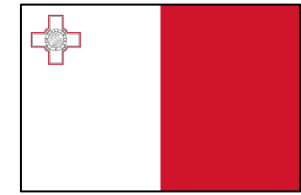
Project Objectives

- Develop an interoperable platform for RECs and CECs.
- Enable energy sharing, market access, and flexibility services.
- Bridge legal implementation with digital functionality across EU.



Methodology





Most complete alignment with RED II and 2019/944.



Early adopter, missing clear energy sharing framework.



Cooperative model emerging, practical hurdles remain.



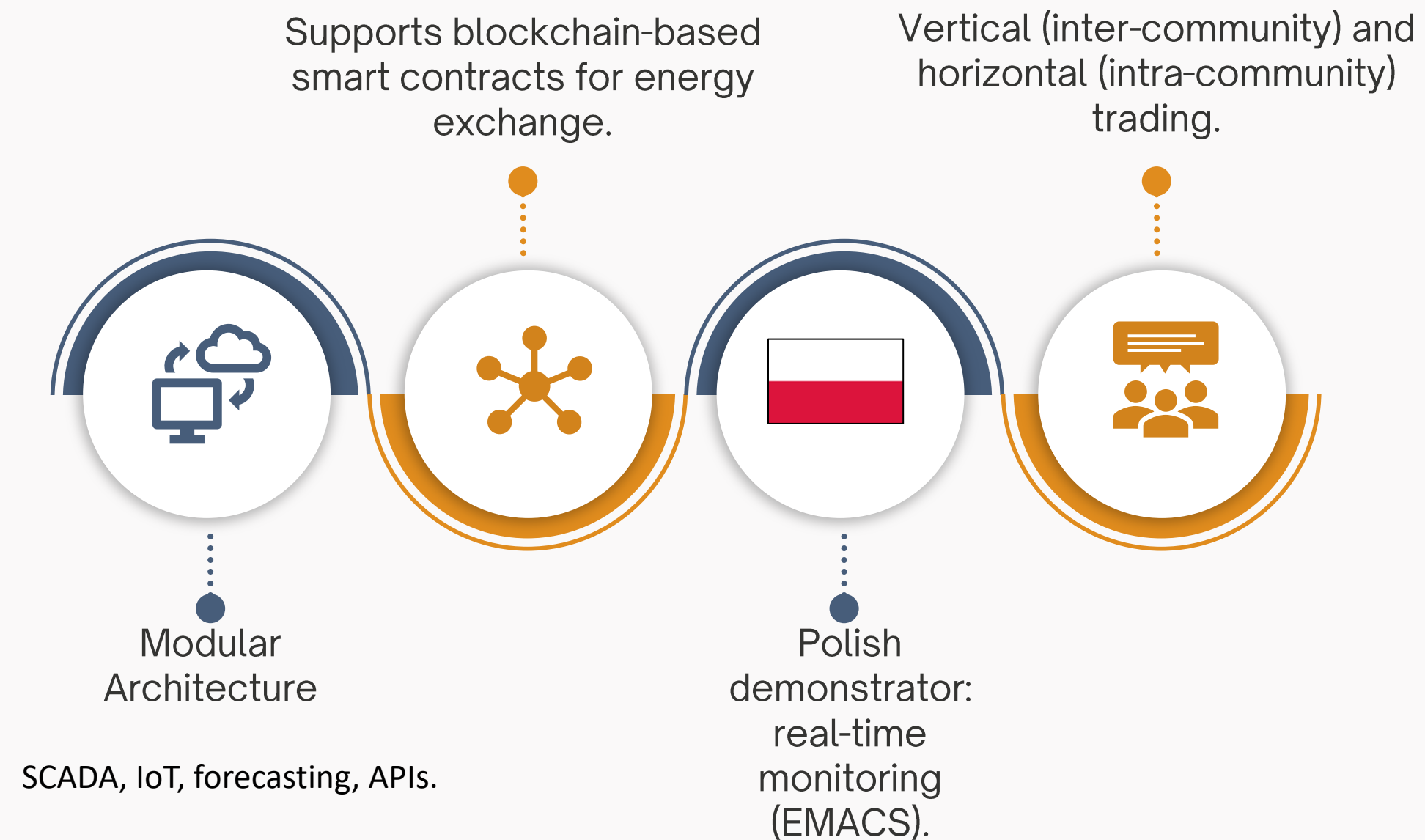
Draft law exists but not adopted yet.



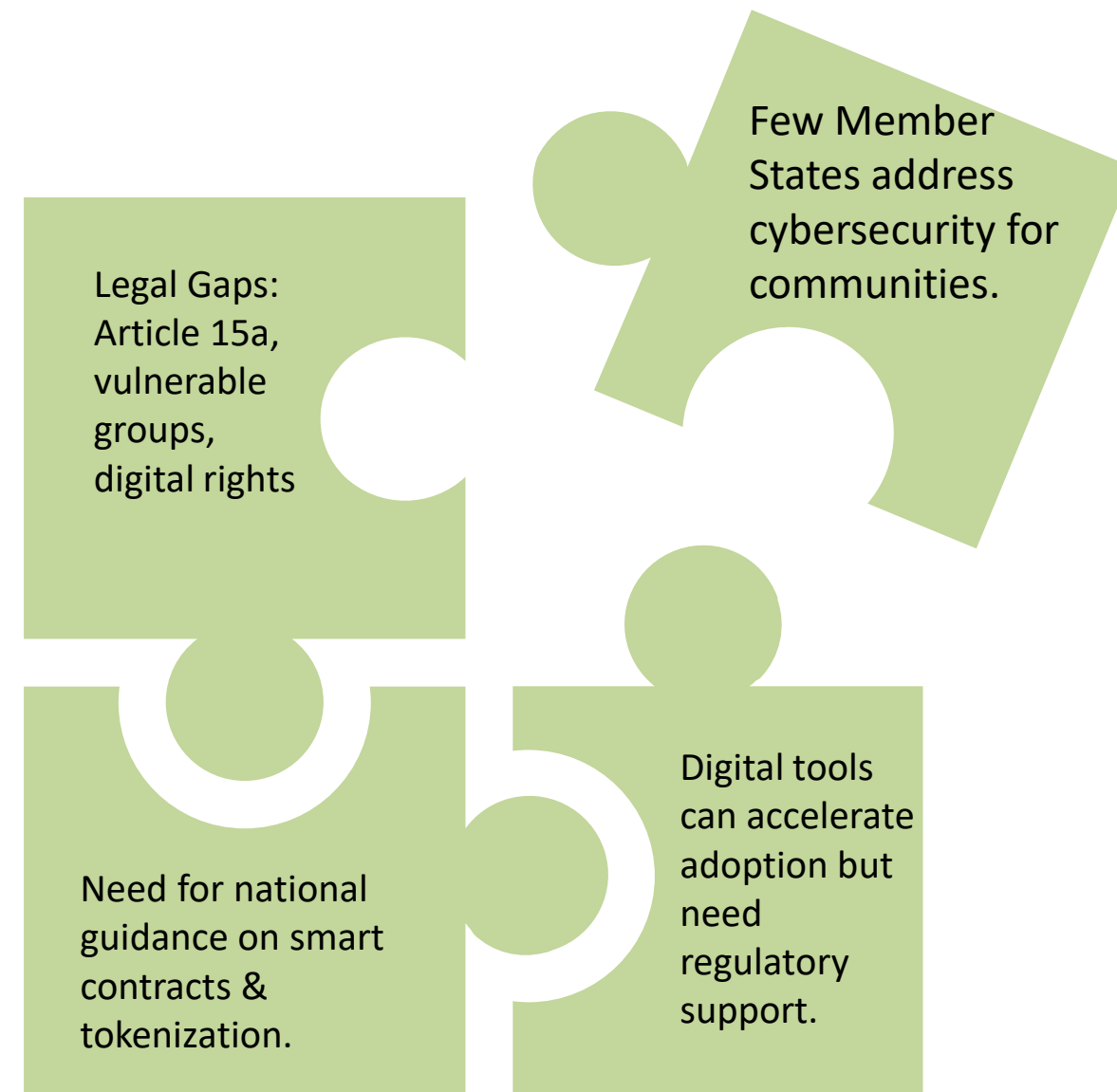
Strong REC support, CEC implementation less detailed.

Key findings-Legal Implementation

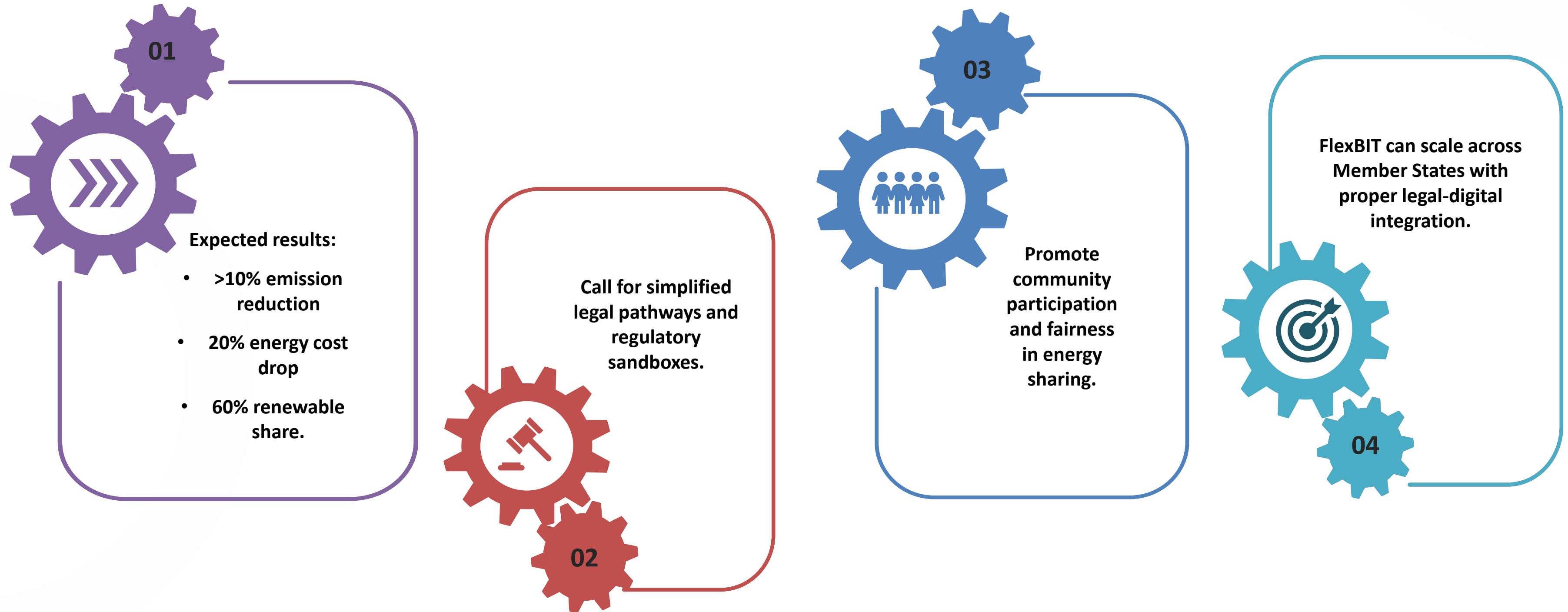
FlexBIT Platfrom-Digital Layer



Barriers & Opportunities



Impact & Policy Recommendations



Our Team / Our Partners



**Università
degli Studi
di Palermo**



TOR VERGATA
UNIVERSITÀ DEGLI STUDI DI ROMA



Wrocław University
of Science and Technology



**L-Università
ta' Malta**



CERTH
CENTRE FOR
RESEARCH & TECHNOLOGY
HELLAS



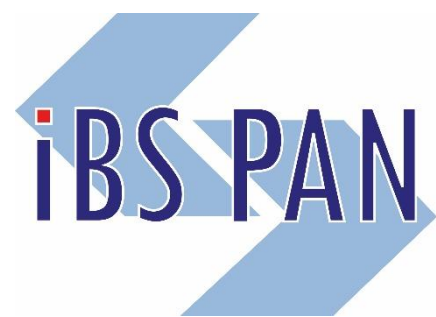
**UNIVERSITY OF
PATRAS**
ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ



SCERG
Sustainable and Clean
Energy Research Group



Fraunhofer
IFF



Next
Multiservice



Aiue
BESTATTUNGEN



electrum

THANK YOU

For watching this presentation

Christina Karatrantou

 ch.Karatrantou@certh.gr

This research was funded by CETPartnership, the Clean Energy Transition Partnership under the 2023 joint call for research proposals, co-funded by the European Commission (GA N°101069750) and with the funding organizations detailed on <https://cetpartnership.eu/funding-agencies-and-call-modules>.



Supported by:



Federal Ministry
for Economic Affairs
and Climate Action

on the basis of a decision
by the German Bundestag



Co-funded by
the European Union



Ministero delle Imprese
e del Made in Italy

