

# COMMUNITAS

Unlocking the active participation of citizens in energy markets through energy communities

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101096508

# Energy Markets

- Spot market
- Intraday market
- Ancillary services market
- Guarantees of Origin market

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# Energy Markets

## Inaccessible to consumers

- Complexity of the system
- Regulatory requirements
- Minimum transaction volume
- Risk management
- Market design

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# The role of Energy Communities

- Empowerment and participation
- Local economy
- Environmental and economic benefits
- Grid resilience
- Education and awareness

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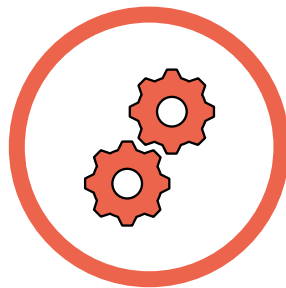


# The COMMUNITAS project

Support citizens to become **active participants** in energy activities and deliver a set of tools to support the **creation, growth, and capacity building** of Energy Communities.



**Social engagement & innovation**



**Technical & market tools**



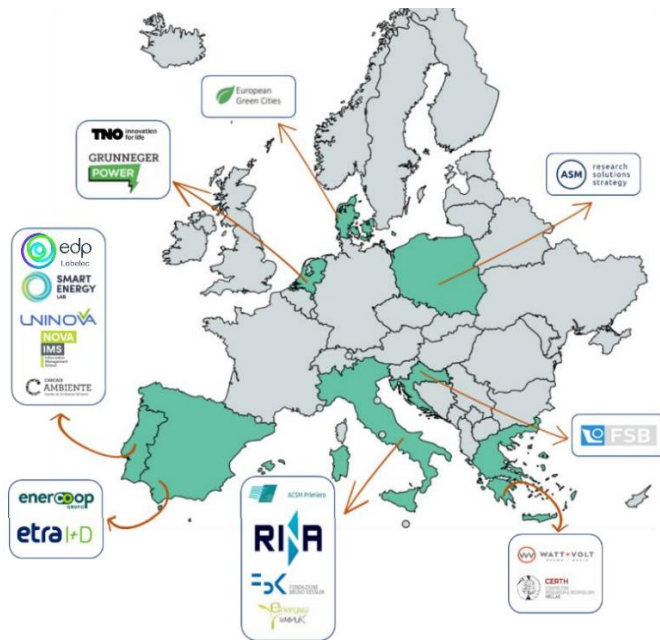
**Financial, regulatory & administrative support**

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# The COMMUNITAS project



- ❖ 18 partners
- ❖ 8 European countries
- ❖ **Led by EDPL**

❖ **3.5 years' project**

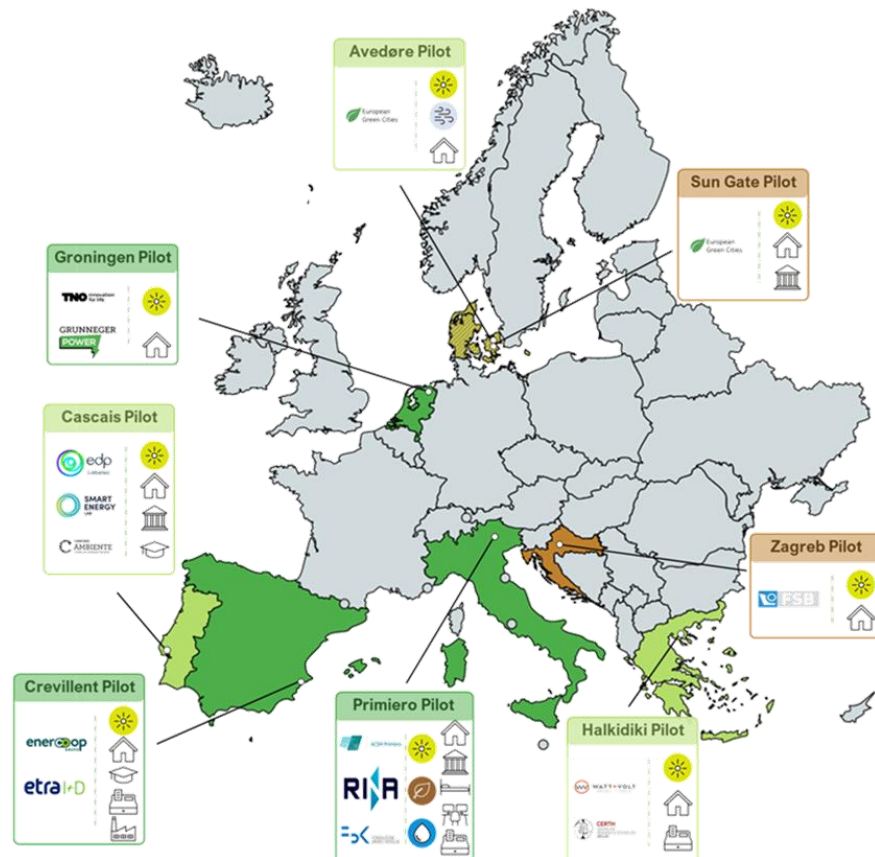
- ❖ Budget: 7M€
- ❖ Grant: 6M€

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# Demonstration sites



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**Social engagement & innovation**

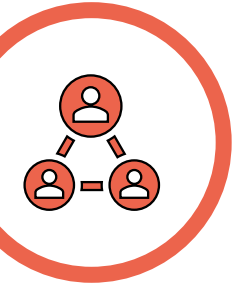
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# The COMMUNITAS project



## Development of value-based propositions in ECs

- Evaluate SSH perspectives
- 8 workshops concluded

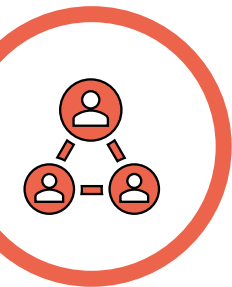


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# The COMMUNITAS project



## Participatory Labs

- Start end of 2023
- Evaluation of COMMUNITAS outcomes

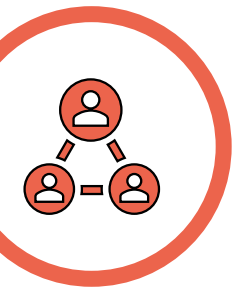


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# The COMMUNITAS project



## Replication academy

- Outreach to countries not involved in the project
- Facilitate upscaling

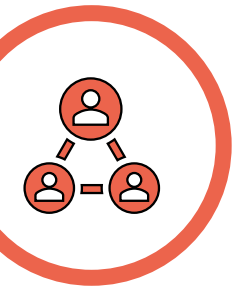


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# The COMMUNITAS project



## Social acceptance campaigns

- Campaigns will focus on promoting COMMUNITAS solutions
- Reach a wider audience

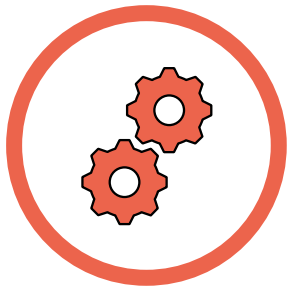


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# The COMMUNITAS project



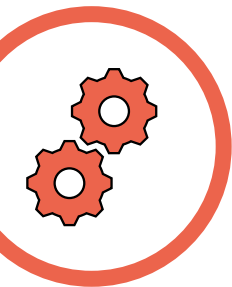
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# The COMMUNITAS project



## Planning & investment analysis

- Investment advisor
- Sizing
- Deployment plan

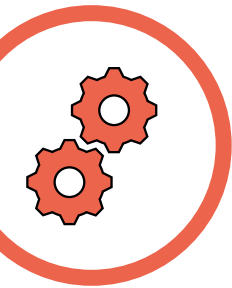


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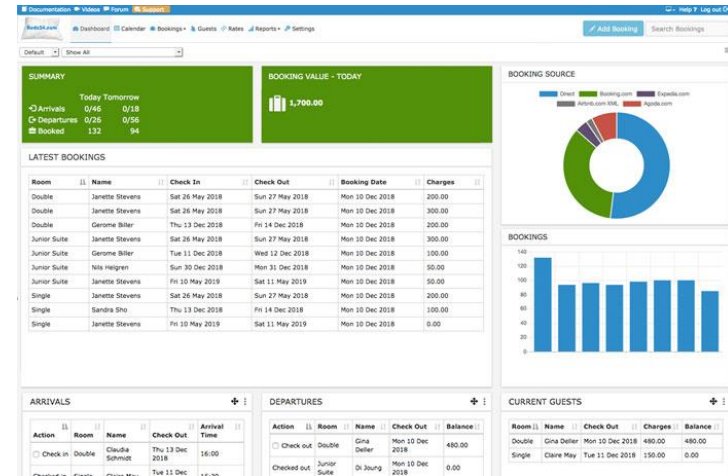
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# The COMMUNITAS project



## Community Management

- Manage community members
- Define the shares of energy
- Engagement between members and community manager

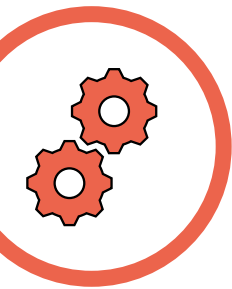


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# The COMMUNITAS project



## Demand response & energy optimization

- Optimize energy according to different load and generation profiles
- Test the impact of responding to grid request (local flexibility market)



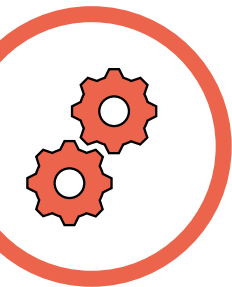
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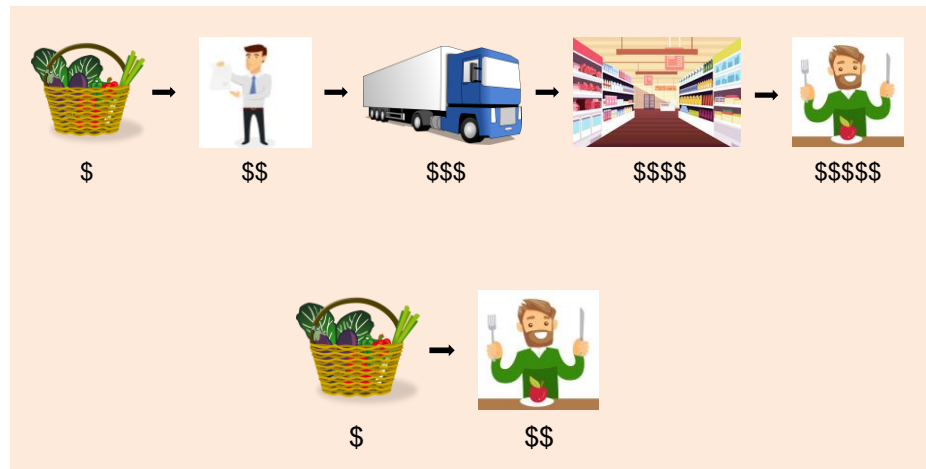


# The COMMUNITAS project



## P2P energy trading

- Eliminate the need to sell and re-buy energy produced within a community
- Attribute all excess energy to members that require it

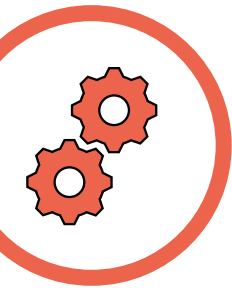


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# The COMMUNITAS project



## Guarantees of Origin marketplace

- Aggregate small producers to achieve scale
- Based on granular GO principle



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# The COMMUNITAS project



## Knowledge base

- Details the whole process of creating or expanding an Energy Community



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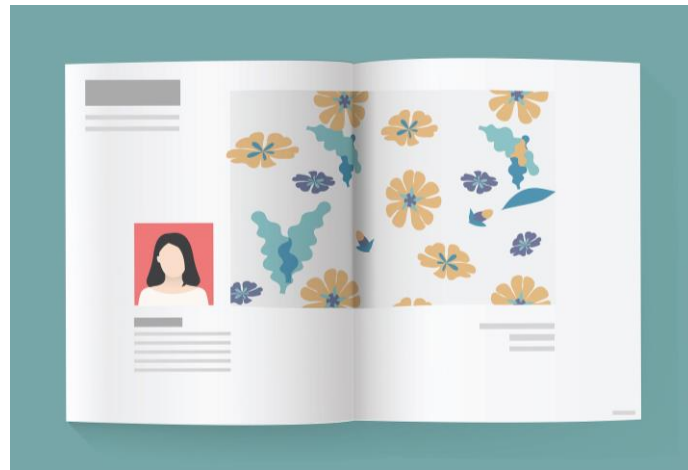
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# The COMMUNITAS project



## Guidelines for emergent market roles & Policy recommendations

- Steering market-based recommendations
- Measures beyond marginal pricing
- Legal analysis and comparison of COMMUNITAS pilots



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