



**Università  
degli Studi  
di Palermo**

# FileXBIT

**presented by Prof. Gaetano Zizzo**

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## Who are you, and what is your organization's area of expertise?

**Prof. Gaetano Zizzo, Principal Investigator at University of Palermo (UniPa)**

At UniPA, we specialise in the simulation of electrical power systems and the definition of control logics for loads, storage systems and generators for the provision of ancillary services to electricity grids. Our team is committed to promoting a culture of flexibility and energy efficiency for security and management of electricity grids.



# What is your vision for FlexBIT?

Our vision of FlexBIT is to enable flexibility for all end-users to interact with the electricity distribution network. We believe that by defining smart controls and monitoring systems suitable for all types of end users, we can significantly contribute to the success of the project and help shape a sustainable energy future.



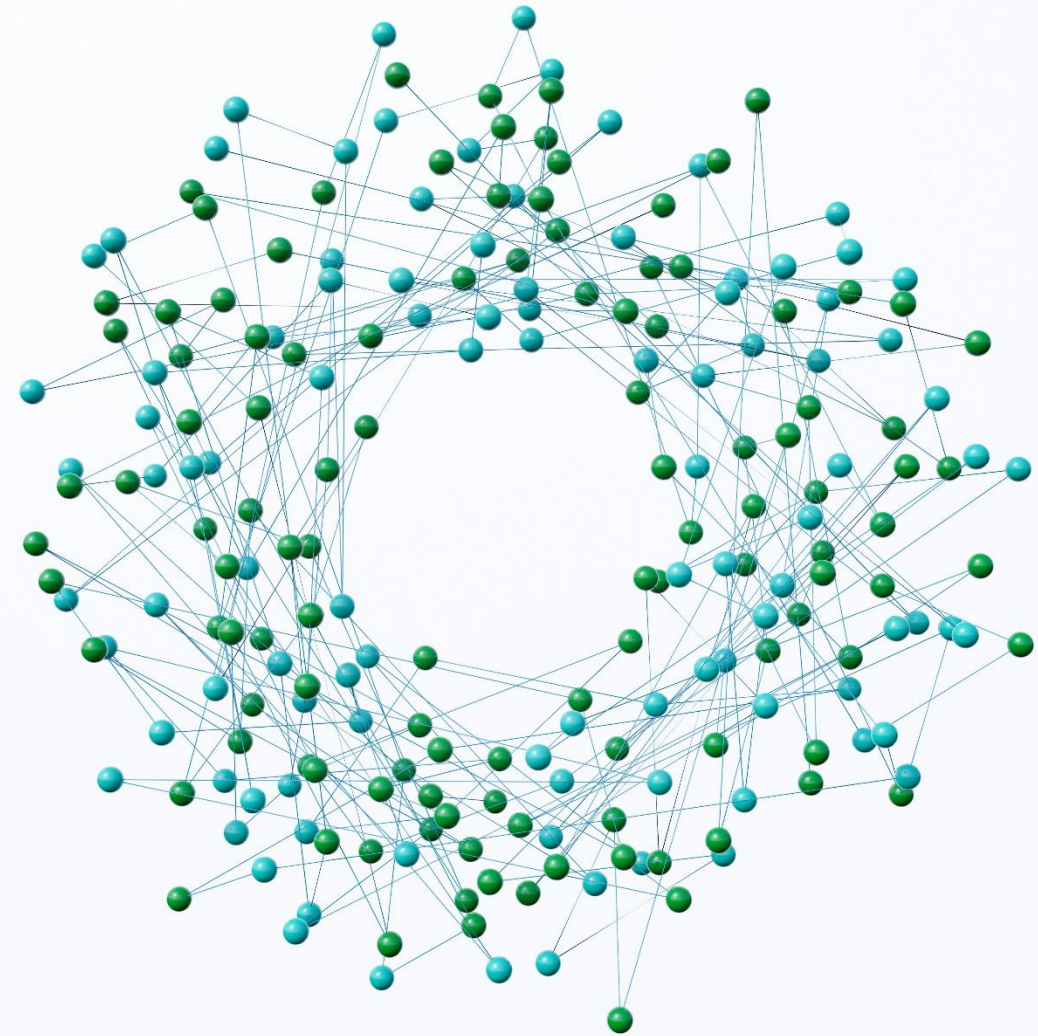
## What specific role does your organization play in FlexBIT?

In FlexBIT, UniPA is responsible for developing innovative solutions for energy and flexibility exchange, including horizontal and vertical exchanges, and enhancing the system's interoperability with existing energy community platforms. UniPA is also responsible for the experimental activities on two of the three Italian demonstrators.



## What are the key outcomes your organization hopes to achieve in FlexBIT?

Through FlexBIT, UniPA intends to contribute to the definition of a unified digital platform for flexibility aggregation, useful both for interactions in renewable energy communities and for the provision of ancillary services to DSOs. Testing on Italian demonstrators will allow the effectiveness of the developed platform to be evaluated. This progress will make it possible to demonstrate the potential of renewable energy communities and, at the same time, improve the operation of electricity grids.



# Why is FlexBIT important for Europe's energy transition?

FlexBIT addresses the challenge of integrating end-user flexibility into electricity grids by taking into account the different potentials of each user category and the different needs of DSOs. The proposed approach makes it possible to define a solution adaptable to different contexts and territories, proposing itself as an innovative element in the field of flexibility both for the development of renewables and for the provision of grid services.

