



# ACINO: Application-Centric IP/Optical Network Orchestration

**645127 – ACINO - H2020-ICT-2014-1**

**[www.acino.eu](http://www.acino.eu)**

**@acinoH2020**



This project is funded  
by the European Union

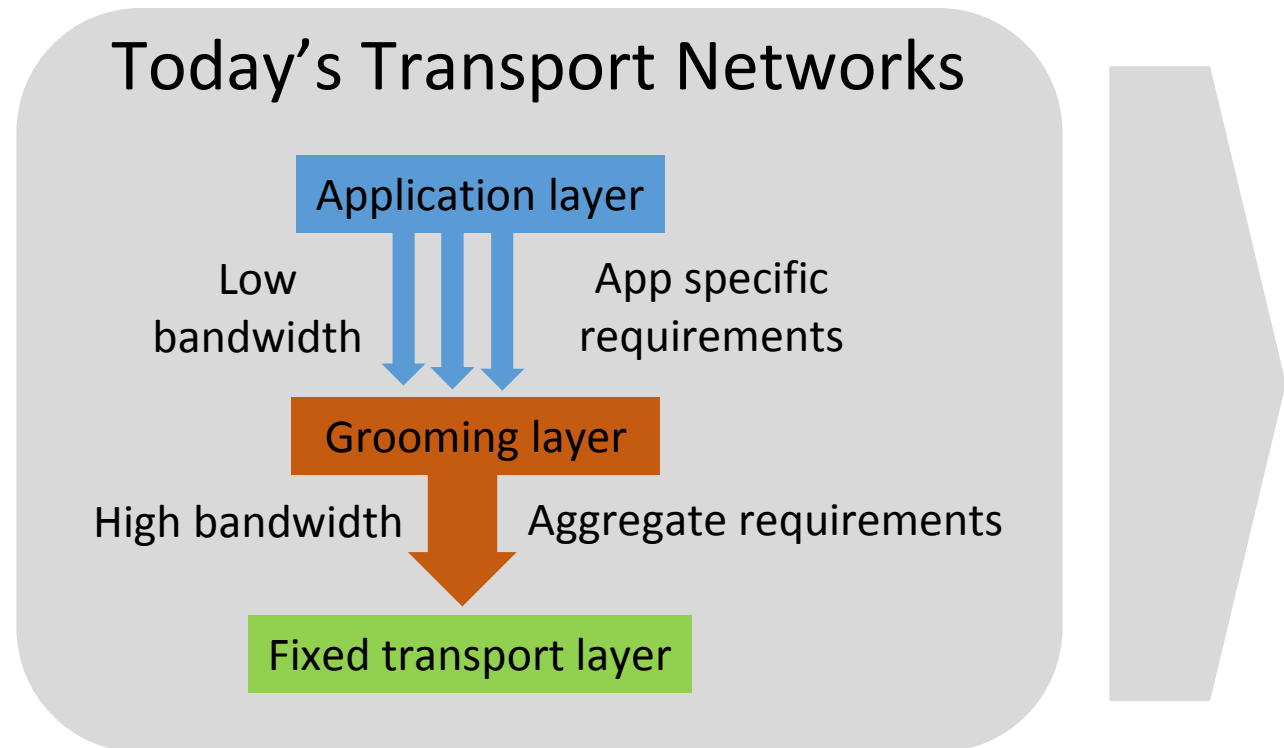
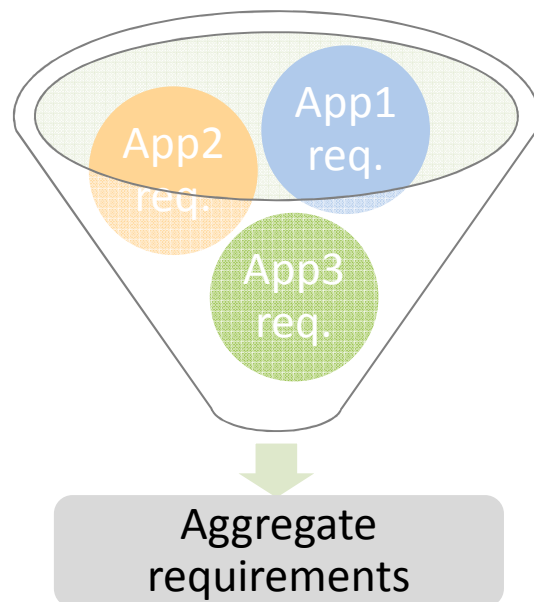


# Main Facts

- A small scale Project under EU H2020 Programme
  - ICT6 - smart optical and wireless network technologies
- Budget: 2.88 M€
- Project duration: 36 months
  - 01/02/2015 to 31/01/2018
- Effort: 290 PMs

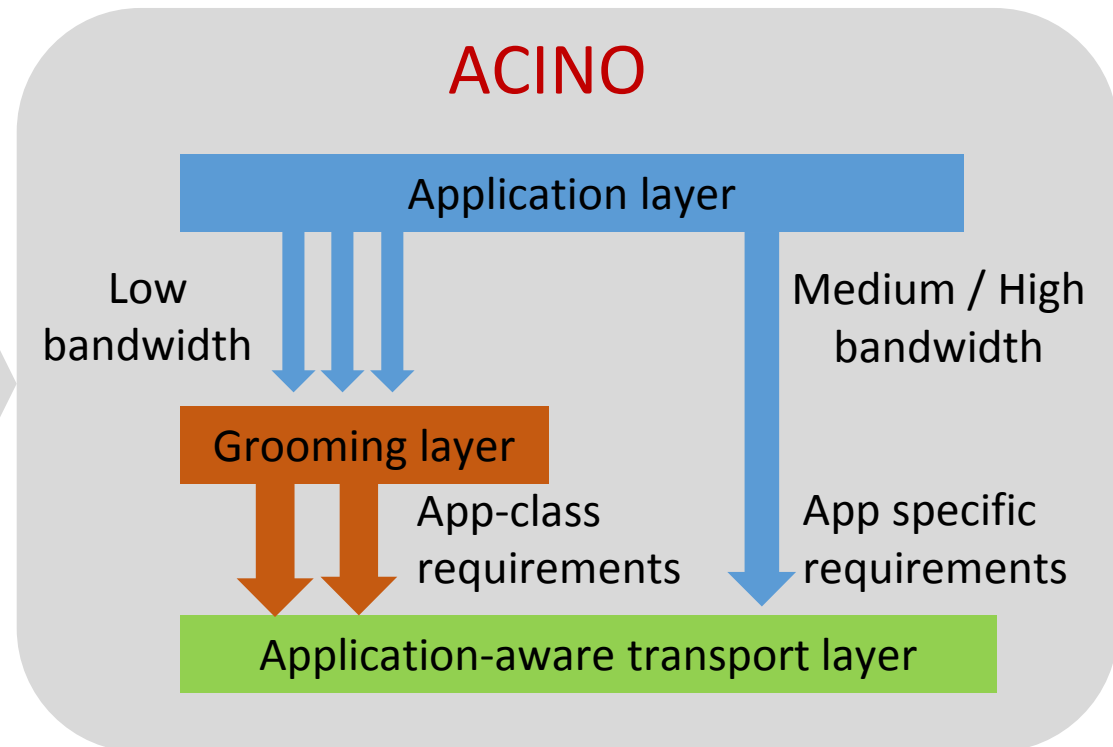
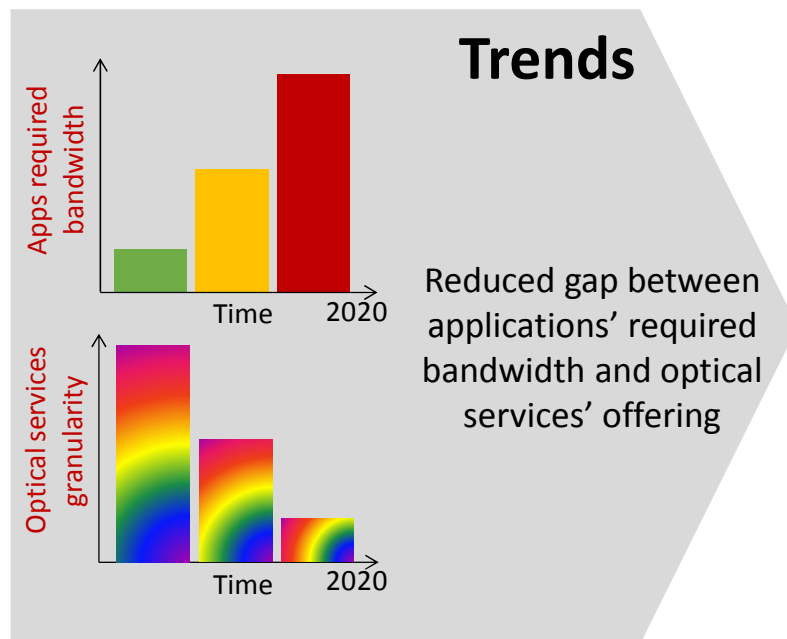
# Challenge

Overcome inaccurate mapping between applications' needs and the service they receive from the transport network



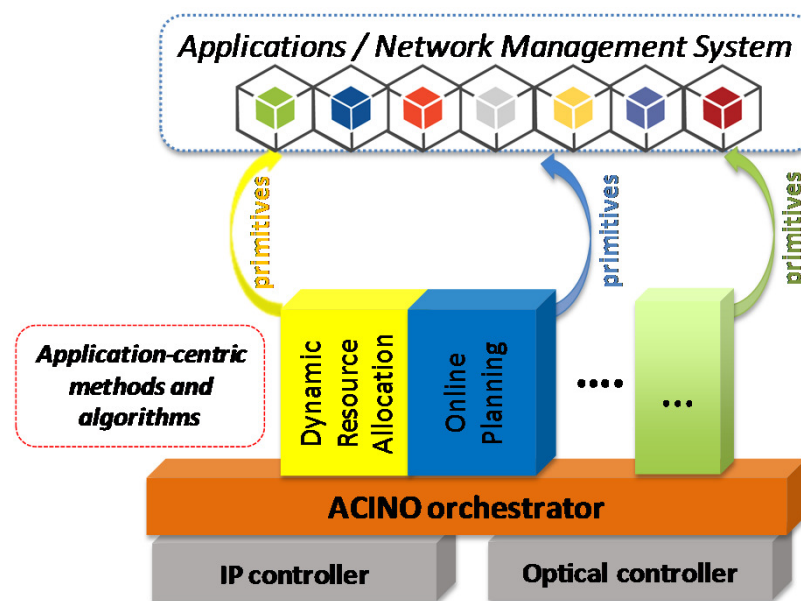
# Approach

Application-centric: differentiate the service offered to each application all the way down to the optical layer

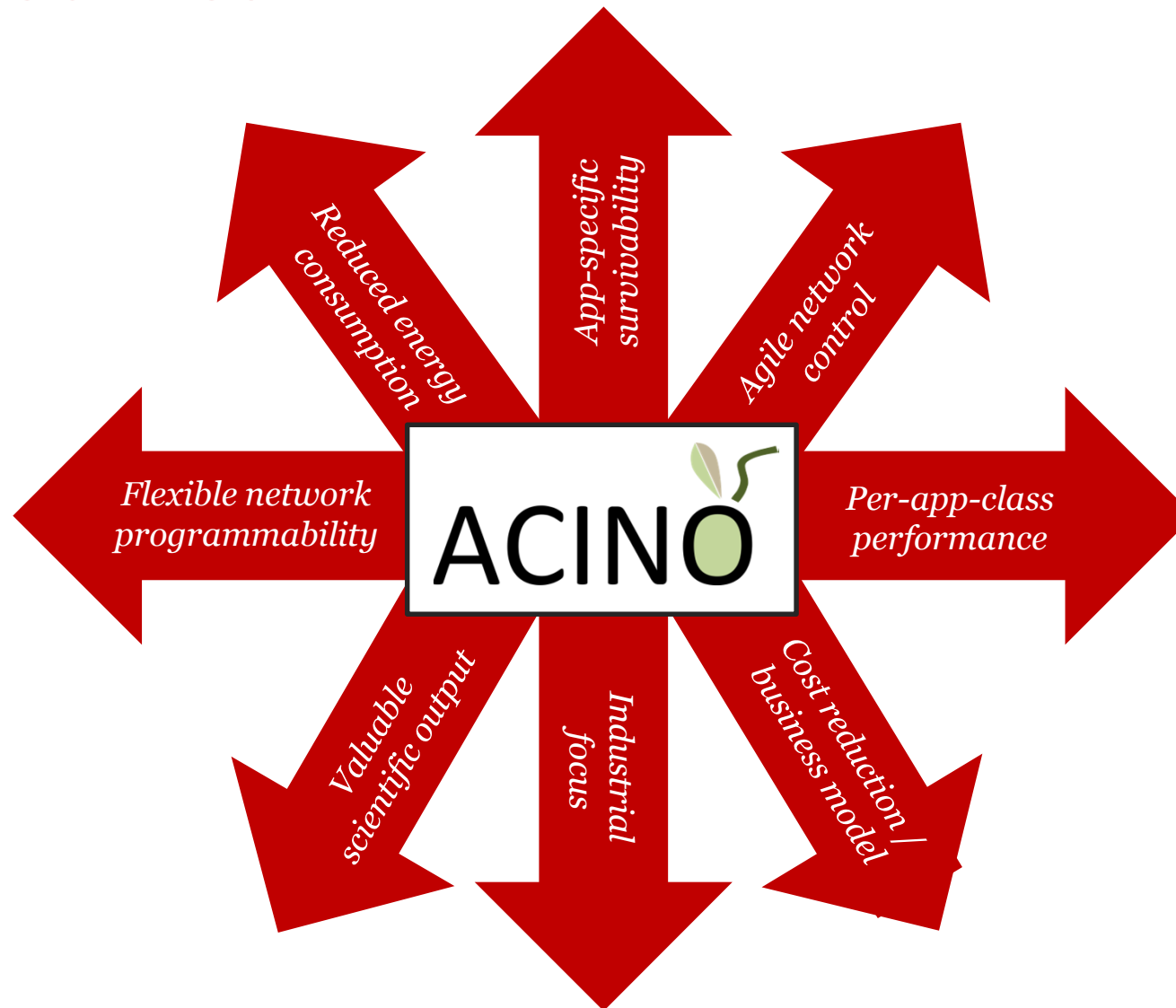


# Solution

Open source modular orchestrator enabling applications to program the IP/Optical transport network by means of high-level primitives



# Objectives



# Impact

Maintain a state of the art industrial capability on optical network technology in Europe

Prove the value of sliceable transponders and create a business case for this technology

Support the cost efficient emergence of novel classes of network services and applications

Enabling optical layer services directly relating to the needs of the application

Reducing energy consumption

Minimized use of the grooming layer and apps directly mapped into a spectrum slice

Enable managed and automated cross domain optical resources

Integration of vertical domains, SDN cross domain capabilities

Foster emergence of industry open standards

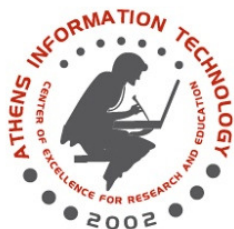
Proven consortium experience with standardization process



# Consortium



**Research Center  
(Italy)**



**Research Center  
(Greece)**



**Network Operator  
(Spain)**



**Research Center  
(Sweden)**



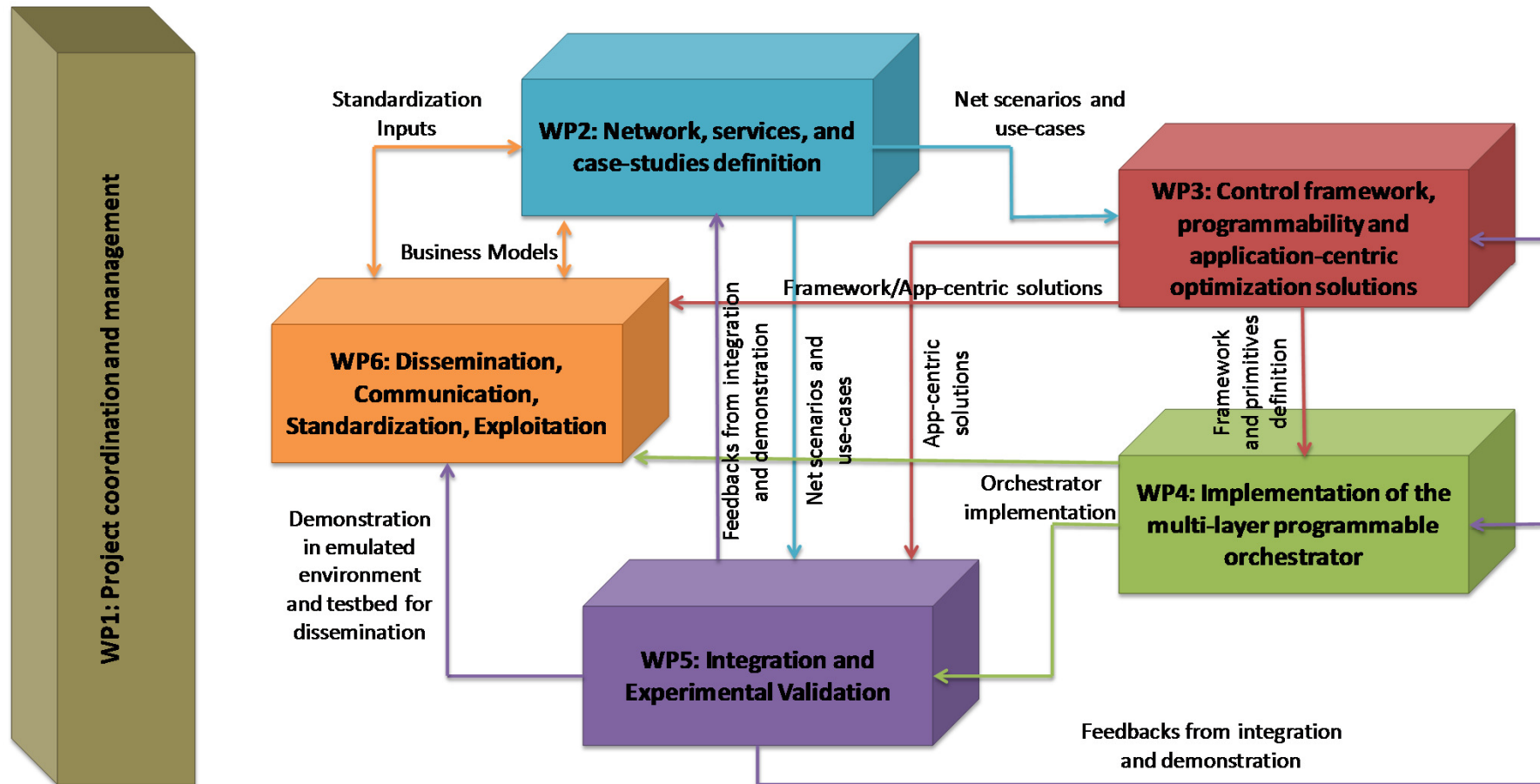
**SME  
(Israel)**



**System Vendor**



# Workplan



# Contacts

- Project Coordinator
  - Dr. Domenico Siracusa  
CREATE-NET, Italy  
Tel: (+39) 0461 312435  
[domenico.siracusa@create-net.org](mailto:domenico.siracusa@create-net.org)
- Project Information
  - Website: [www.acino.eu](http://www.acino.eu)
  - Twitter: @acinoH2020
  - Email: [info@acino.eu](mailto:info@acino.eu)