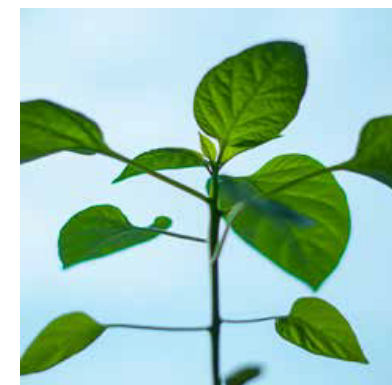
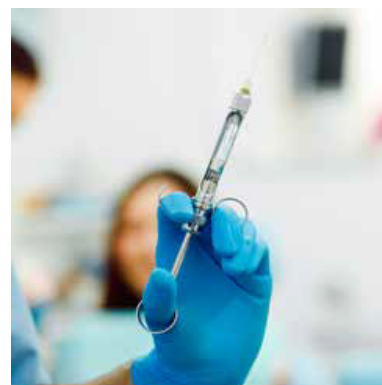


How **CALIPSOplus** intensify collaboration with industry?

Alejandro Sánchez Grueso
ALBA Synchrotron



CALIPSOplus has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730872

CALIPSOplus – H2020 European Project

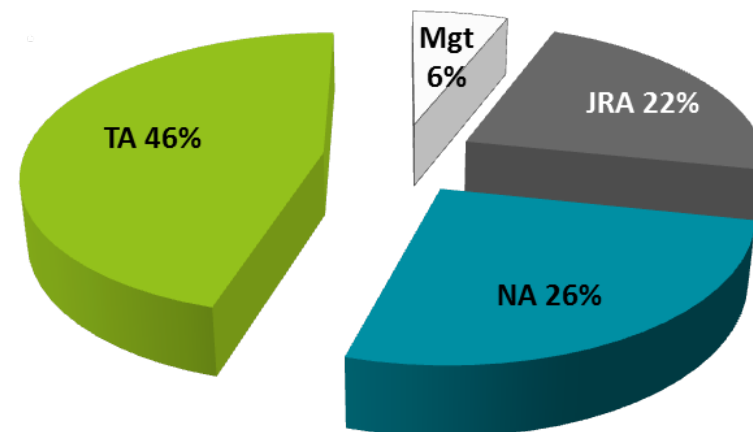
Convenient Access to Light Sources Open to Innovation, Science and to the World

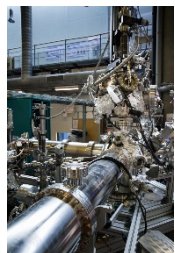


CALIPSOplus brings together **19** partners offering access to **14** synchrotrons and **8** FELs in Europe and the Middle East

- EU project within Horizon2020 - the financial instrument implementing the Innovation Union, a Europe 2020 flagship initiative aimed at securing Europe's global competitiveness
- Budget of CALIPSOplus: 10 million Euro
- 19 Partners, 3 associated partners, several observers
- 4 Networking Activities, 2 Joint Research Activities
- Provision of more than **82,500 hours of trans-national access to 14 synchrotrons and 8 free electron lasers**
- **Trans-national access tailor-made to SME**
- Project running time: 1 May 2017 – 30 April 2021

<http://www.calipsoplus.eu/>

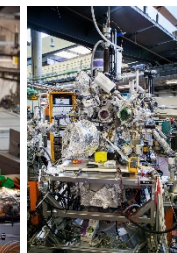
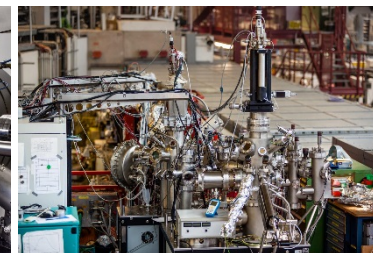




More than 270 Beamlines

More than 30.000 users

More than 5.000 publications



Techniques available

- XMCD 38
- UVCD 3
- Time-resolved studies 38
- NEXAFS 83
- IR spectroscopy 22
- EXAFS 51

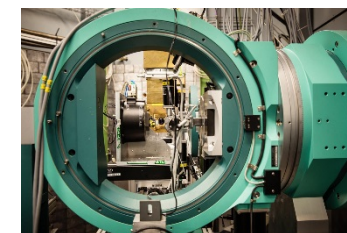


- X-ray Photoelectron emission
- X-ray Imaging
- X-ray Scattering
- X-ray Emission or Reflection
- X-ray and IR Absorption
- X-ray Diffraction

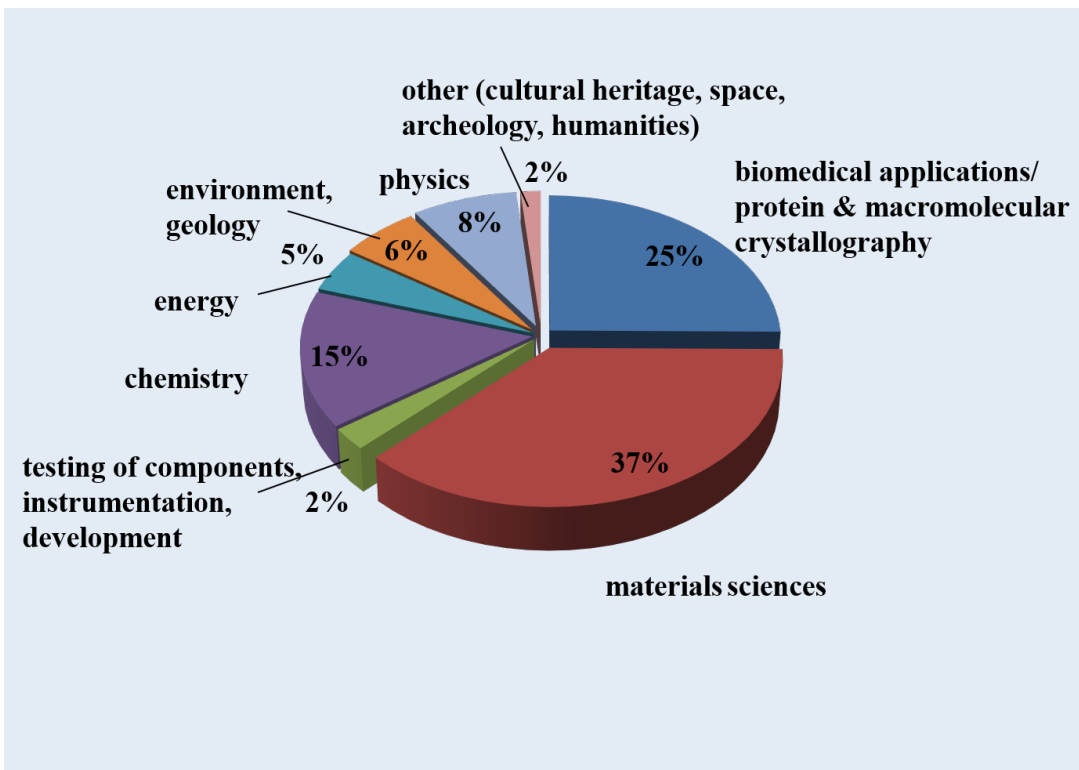
- XPS 59
- UPS 38
- Time-resolved studies 15
- Spin-resolved ARPES 7
- Photoelectron diffraction 19
- Angular Resolved PES 46



- Topography 5
- Time-resolved studies 30
- Surface diffraction 31
- Powder diffraction 43
- Crystallography (material science) 50
- Crystallography (biological macromolecules)



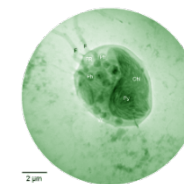
<http://wayforlight.eu/eng/search-beamlines.aspx>



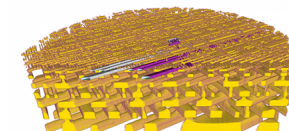
Cultural Heritage:
the Sky Disk of Nebra



Biomedical Research:
A living cell



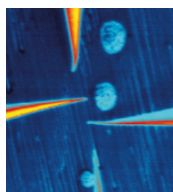
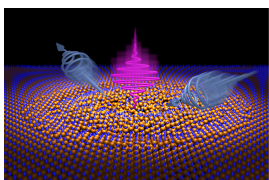
Material Science:
Inside a chip



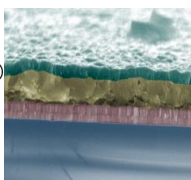
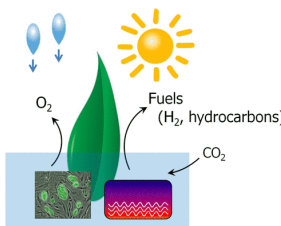
Instrumentation:
An X-Ray Undulator



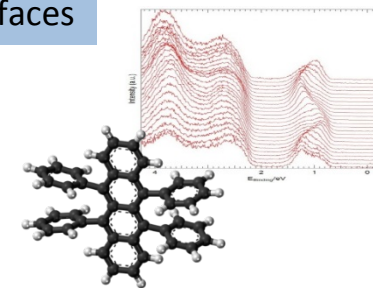
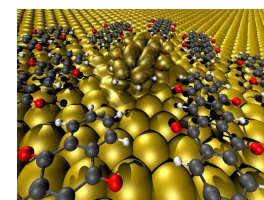
Physics: Elementary Processes –
Understanding and Dynamics



Energy Research:
Photovoltaic and Solar Fuels



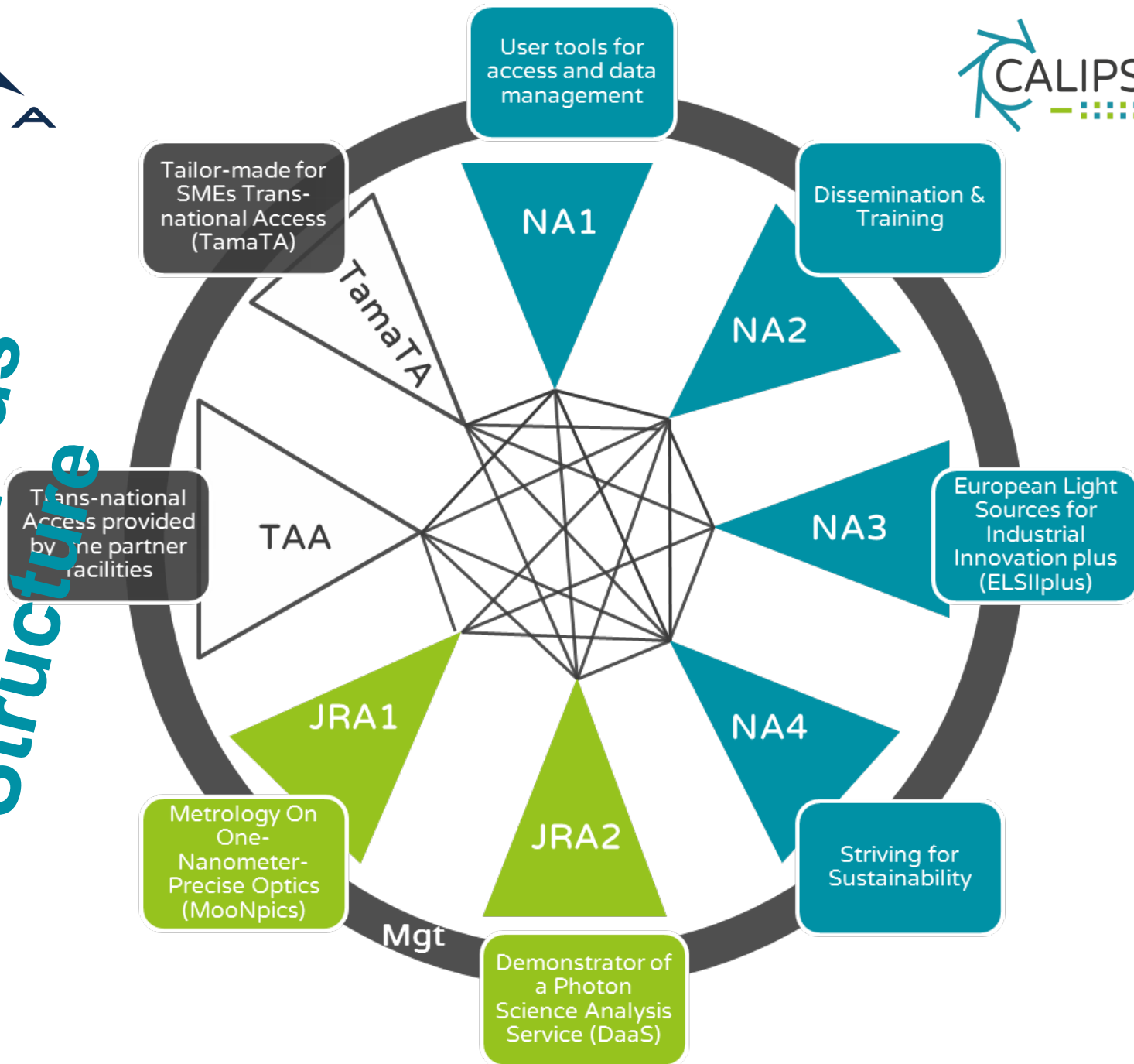
Chemistry:
Catalysis and Surfaces



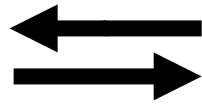
CALIPSOplus goals for Industry

- **Increase European Industry innovation and competitiveness, especially SMEs, through the use of light source infrastructures**
- **Overcome the roadblocks for Industry, in particular for SMEs, to access to light sources infrastructures**

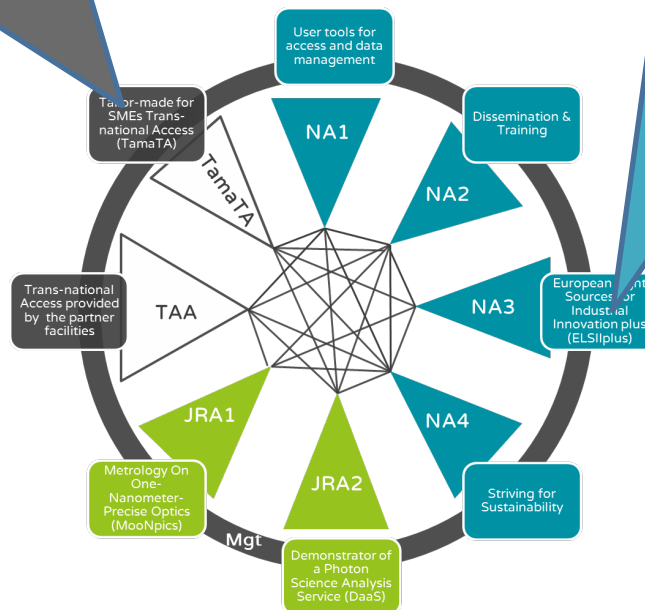
CALIPSOplus Structure

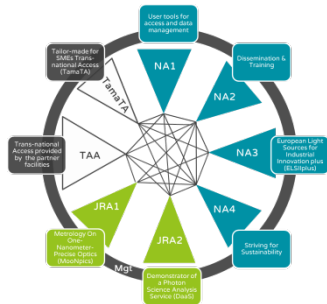


Tailor-made
for SMEs
Trans-national
access
(TamaTA)



NA3: European
Light Sources
for Industrial
Innovation plus
(ELSIplus)





NA3: European Light Sources for Industrial Innovation plus (ELSIplus)

Emphasis on European Regional Industry with SME awareness, training, feasibility

- Industry events
- LS2B
- Support for staff
- Common NDA
- Feasibility access

European Strategic Light Source Positioning for Industry

- Position paper
- High level event

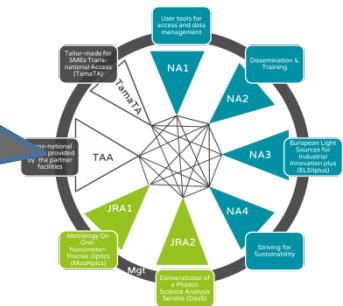
Industry Advisory Board

- Industry feedback

Industry/Business Offices Network meetings

- Best practices

Tailor-made for SMEs Trans-national access (TamaTA)



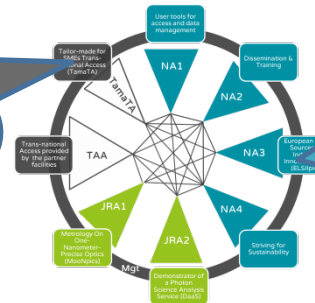
Friendly and rapid access,
Pilot activity (200k€),
Full service with data analysis and report

Light sources offering Industrial access across Europe

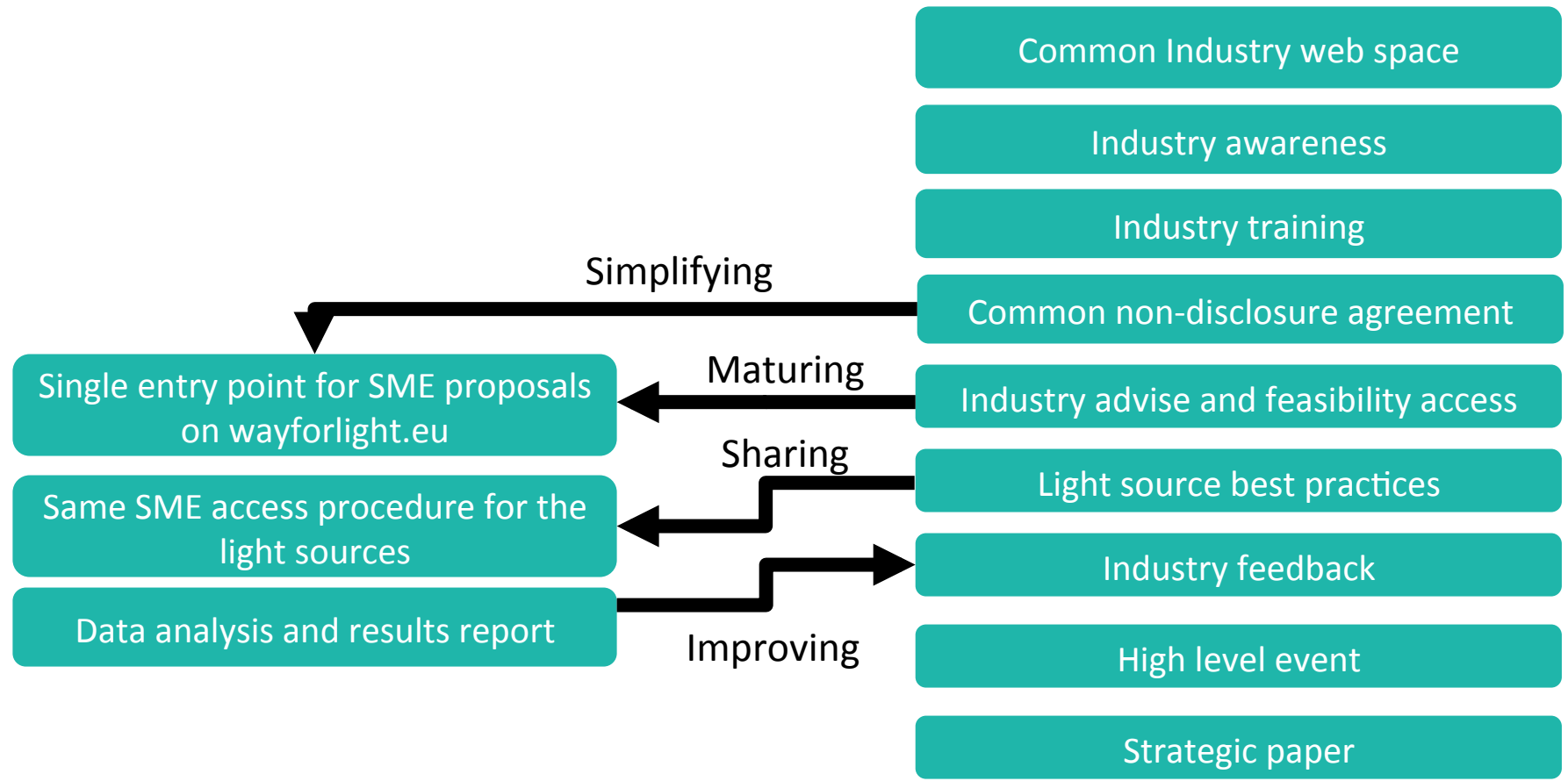
- Open call
- Understand SME problem
- Design experiment
- Perform experiment
- Report results

Outcomes

Tailor-made for SMEs Trans-national access (TamaTA)



NA3: European Light Sources for Industrial Innovation plus (ELSIplus)



- **CALIPSOplus presents a wide range of activities for industry engagement covering from outreach through strategic issues with especial emphasis in SMEs.**
- **Industrial activities have been intensified in CALIPSOplus. Two complementary work packages devoted to Industry.**
- **A new common trans-national access for SMEs is offered by CALIPSOplus, lowering the barriers for light source usage**

Thank you for your attention



<http://www.calipsoplus.eu/>