

## InCIMA for Science and SMEs – InCIMA4

InCIMA4 is based on the Interreg IT-AT InCIMA project, which developed a cross-border infrastructure for the development and multi-technique characterization of smart materials through the strengthening of R&I capabilities and the synergistic collaboration between the partner research institutions: Elettra Sincrotrone Trieste (Elettra), Salzburg University of Applied Sciences (SUAS), and Paris Lodron University of Salzburg (PLUS).

Building on the InCIMA achievements made so far, InCIMA4 will contribute to further increase both the innovative content of basic and applied research and the innovation potential of SME, boosting the cross-boarder collaboration:

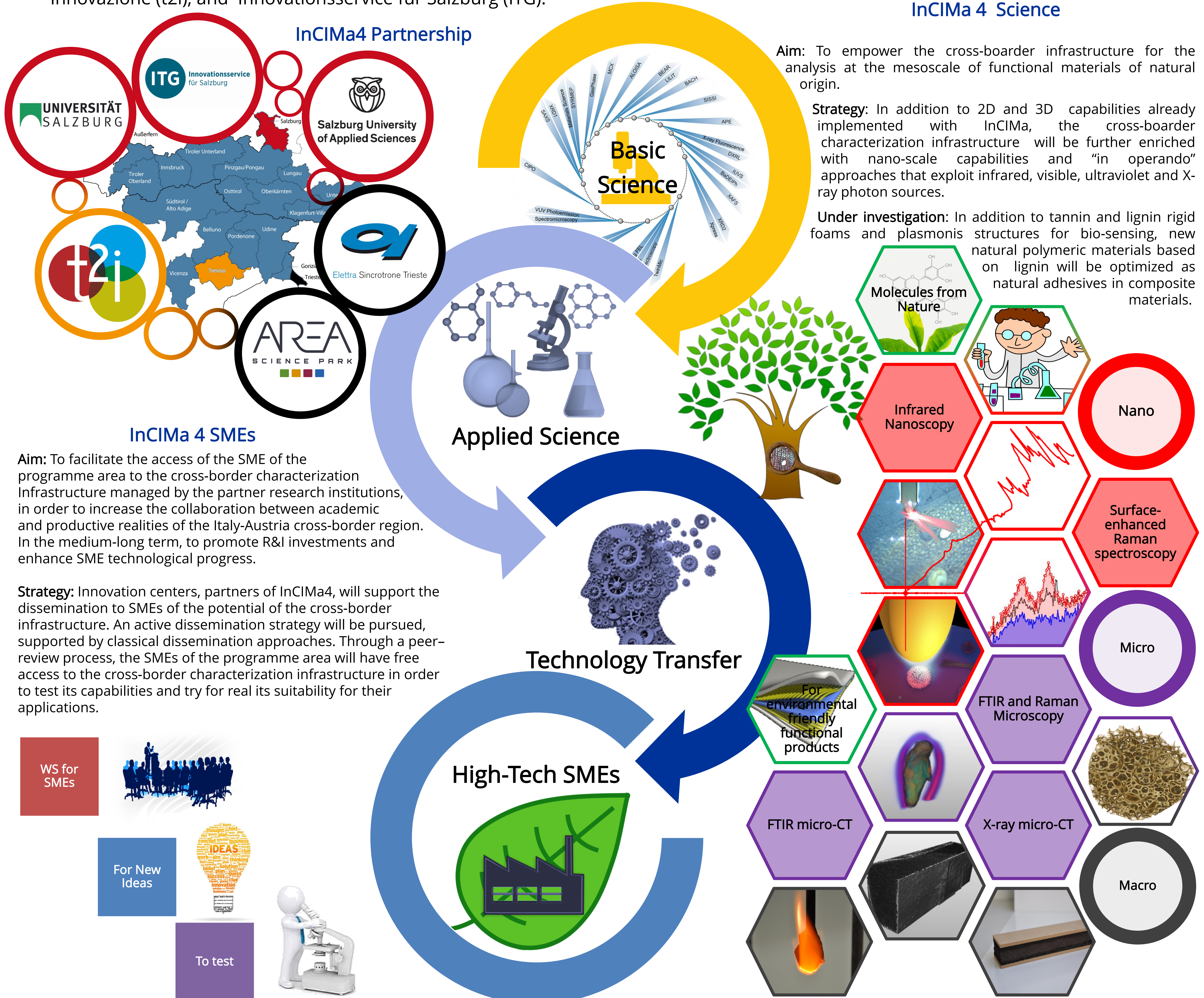
- between the research institutions, with the aim to further strengthen the technical and human expertise in developing and analyzing smart materials. The focus will be on new green tannin-based polymeric materials and on low-cost plasmonic structures, implementing protocols for the integrated analysis and instrumentation for characterization “in operando” and at the nanoscale.
- between research institutions and SMEs, with the aim to make the available cross-border infrastructure accessible to them. For this purpose, the InCIMA4 partnership includes three innovation centers: Area Science Park (AREA), Trasferimento Tecnologico ed Innovazione (t2i), and Innovationservice für Salzburg (ITG).

### InCIMA 4 Science

**Aim:** To empower the cross-boarder infrastructure for the analysis at the mesoscale of functional materials of natural origin.

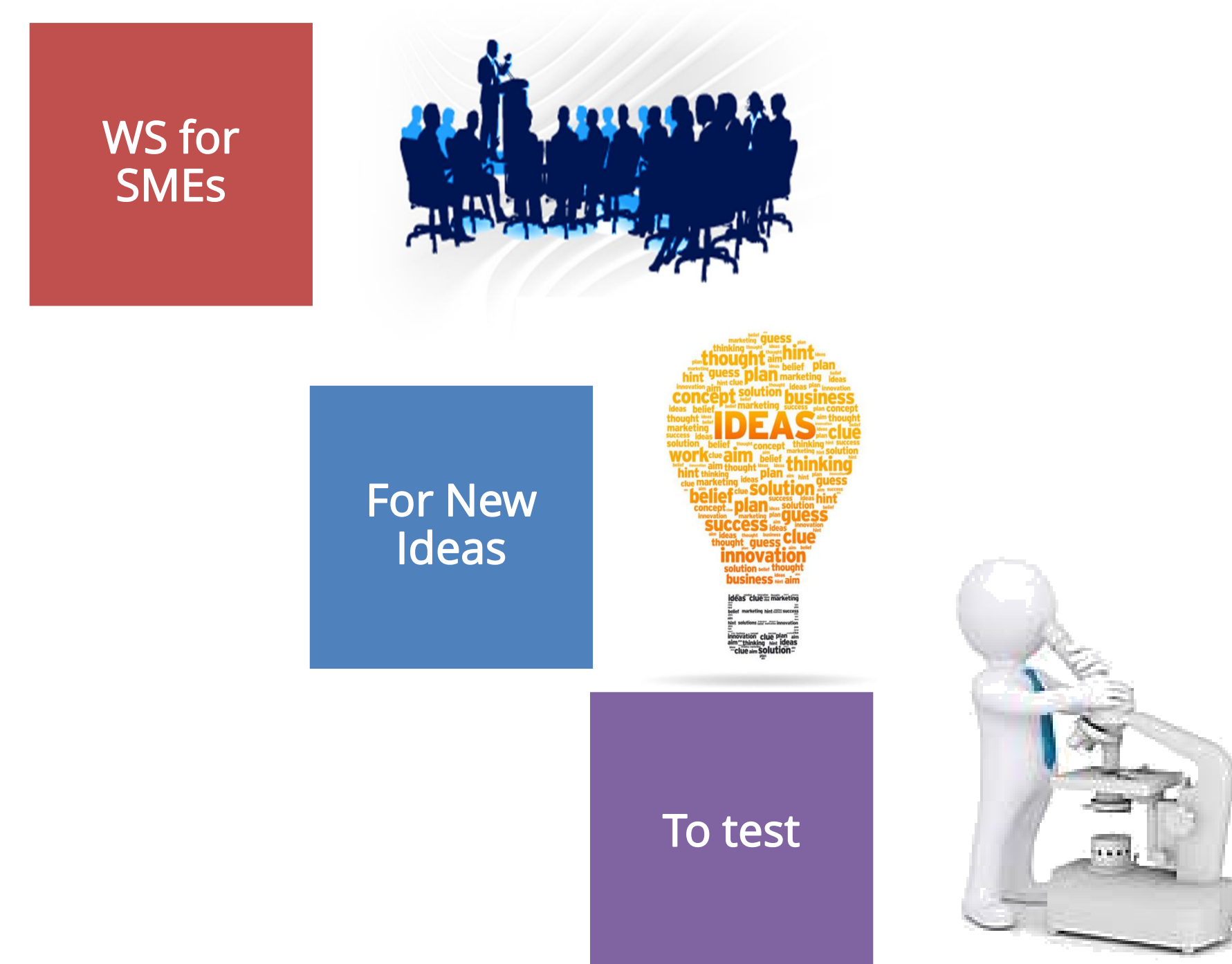
**Strategy:** In addition to 2D and 3D capabilities already implemented with InCIMA, the cross-boarder characterization infrastructure will be further enriched with nano-scale capabilities and “in operando” approaches that exploit infrared, visible, ultraviolet and X-ray photon sources.

**Under investigation:** In addition to tannin and lignin rigid foams and plasmonics structures for bio-sensing, new natural polymeric materials based on lignin will be optimized as natural adhesives in composite materials.



**InCIMA 4 SMEs**  
**Aim:** To facilitate the access of the SME of the programme area to the cross-border characterization Infrastructure managed by the partner research institutions, in order to increase the collaboration between academic and productive realities of the Italy-Austria cross-border region. In the medium-long term, to promote R&I investments and enhance SME technological progress.

**Strategy:** Innovation centers, partners of InCIMA4, will support the dissemination to SMEs of the potential of the cross-border infrastructure. An active dissemination strategy will be pursued, supported by classical dissemination approaches. Through a peer-review process, the SMEs of the programme area will have free access to the cross-border characterization infrastructure in order to test its capabilities and try for real its suitability for their applications.



Contatti / Kontakt