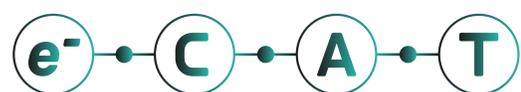


Pioneering the future of TRANSMISSION ELECTRON MICROSCOPY



The **IMPRESS project** aims to develop an **interoperable platform** composed of standardized hardware and software interfaces and multifunctional components that can be transferred interchangeably and customized according to needs.



Correlative, Adaptable, Transferable

Based on an **innovative modular cartridge concept and open designs**, it will create solutions that can be **transferred interchangeably** along the microscope column, between microscopes and across instruments.

We refer to our innovative **modular and standardized cartridge** concept as **e-CAT**.

OUR INNOVATIVE DEVELOPMENTS

Electron sources

With enhanced beam properties.

Optics and detectors

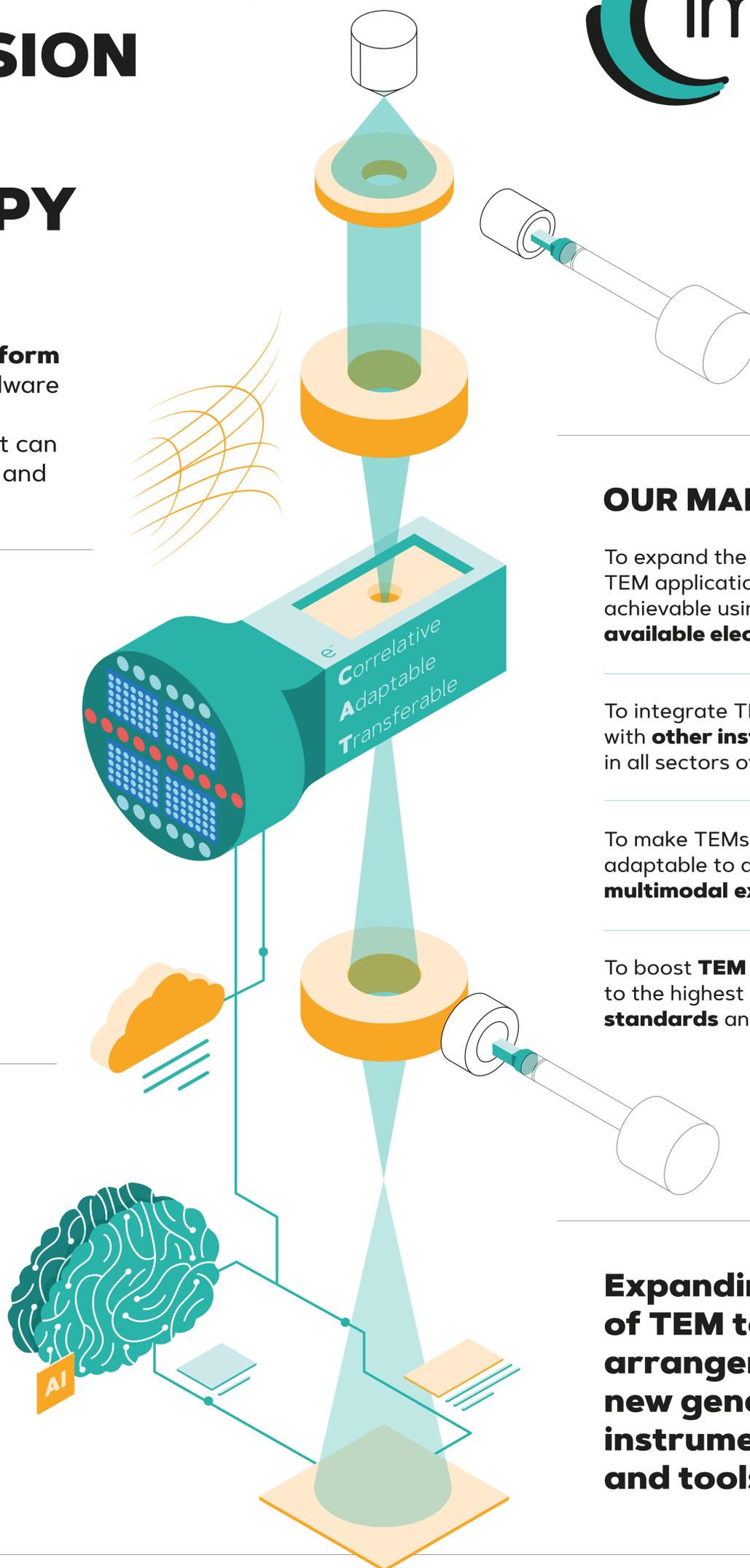
For advanced imaging and spectroscopy.

Sample environment

For multifunctional experiments.

AI based software

For simulation and automation.



OUR MAIN AIMS

To expand the current field of TEM applications beyond what is achievable using **commercially available electron microscopes**.

To integrate TEM components with **other instrumentation** in all sectors of application

To make TEMs flexible and adaptable to a diversity of **multimodal experiments**.

To boost **TEM instrumentation** to the highest level of **open standards** and **interoperability**.

Expanding the horizon of TEM to innovative arrangements via a new generation of instrumentation and tools

The IMPRESS Consortium

brings together 19 partners on a pan-European level

6 Research & Technology Organizations

5 European Universities

5 Research Infrastructures

3 Small and Medium-sized Enterprises



Funded by the European Union. Views and opinions expressed are however those of the authors only and do not necessarily reflect those of the European Union or the European Research Executive Agency (REA). Neither the European Union nor the granting authority can be held responsible for them.



IMPRESS is a project powered by e-DREAM.

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