



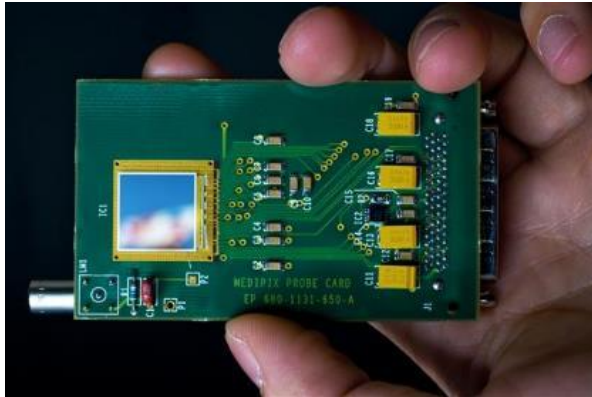
ATTRACT COMPASS Technical Board Meeting

Johannes BERNHARD (EN-EA) 03.09.2018

ATTRACT Fact Sheet

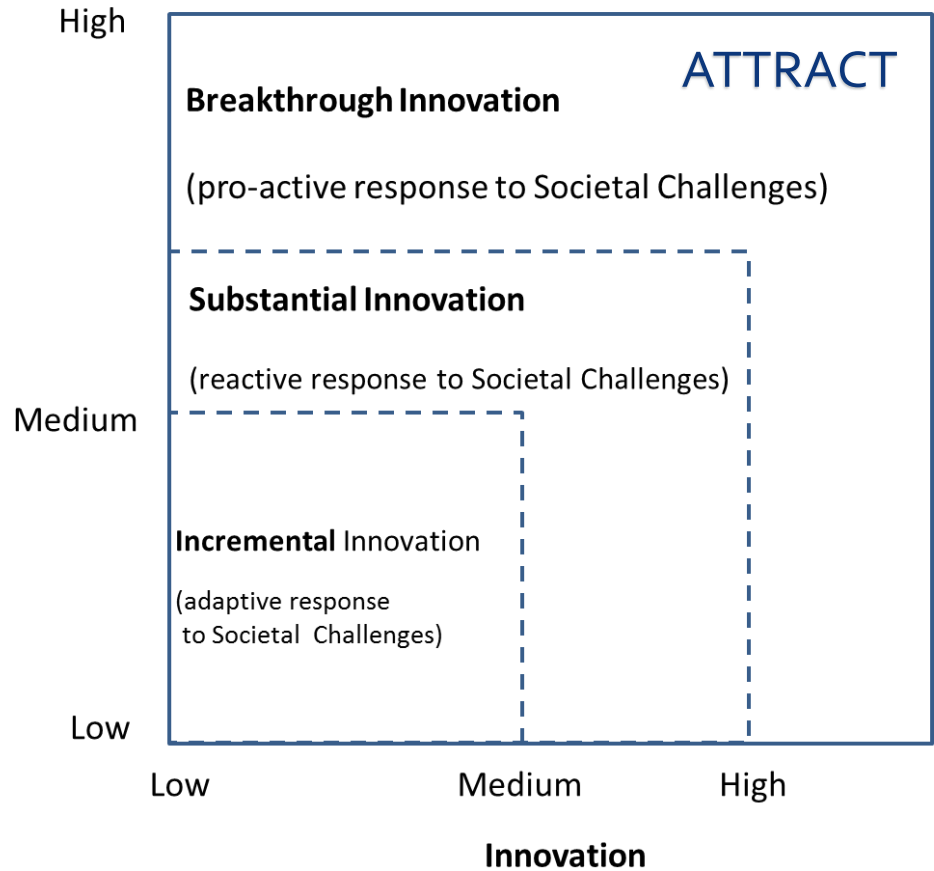
- Initiative using EC funding to promote early stage development of next generation detection and imaging technologies
- Phased approach: If approved, Consortium first funds 170 early-stage ideas in Phase-1 through its own Open Call
- CERN is eligible also to apply for this funding
- Selected projects then present their results a year later for further scale-funding as part of Phase-2
- Sequence repeated several times in so-called Maxi-ATTRACT as of FP9 in 2021+
- Focus is on new ideas or clever combination of existing technology, requiring a consortium of at least 2 from academia, institution, private sector
- Call is open in August with a deadline of 12th October 2018, decision by March 2019. If accepted, financing for one year
- CERN internal deadline: end of next week (if you would like a CERN group in your consortium)

Environment

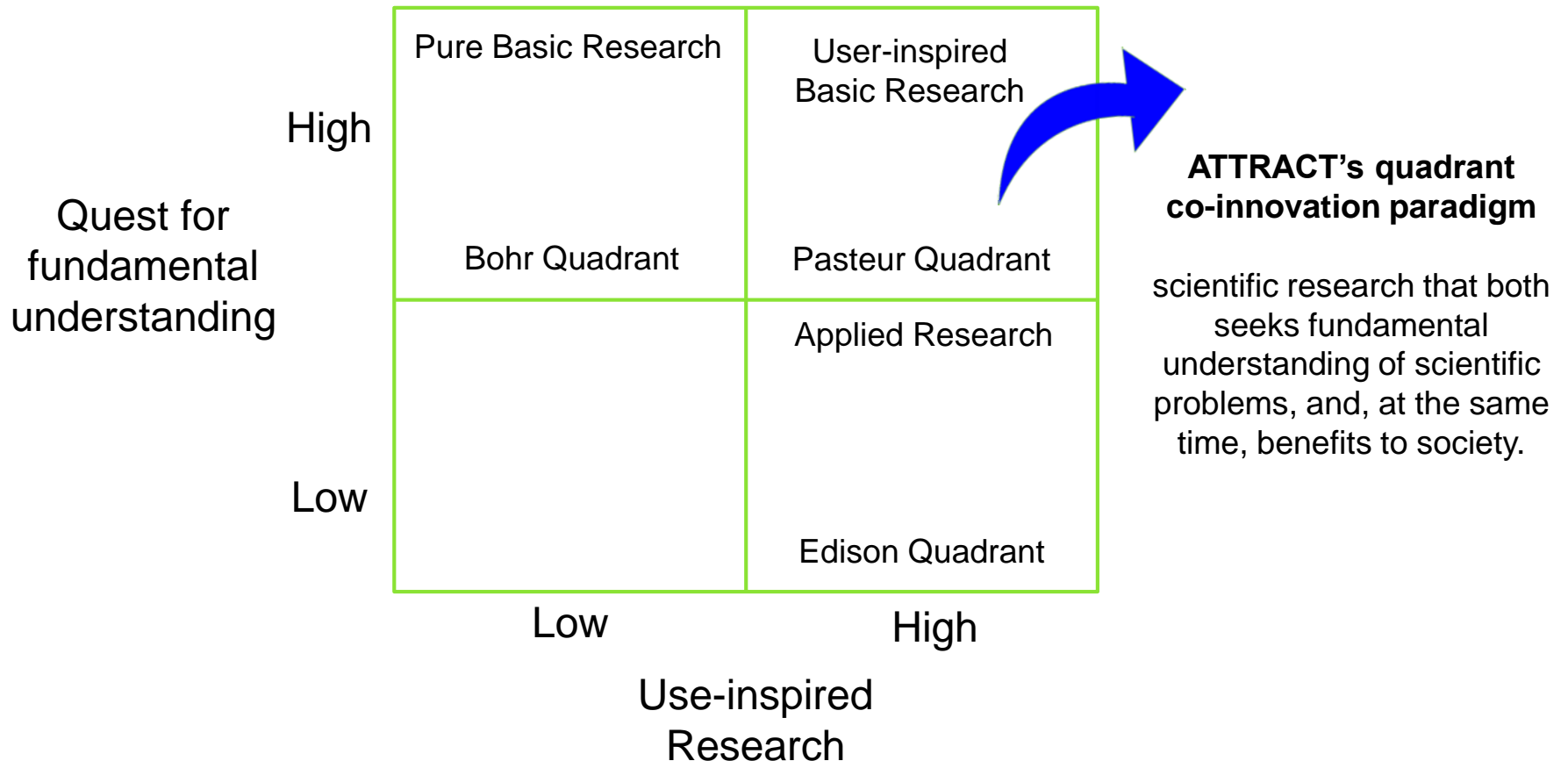


Focus on detection and imaging technologies

Societal Added Value

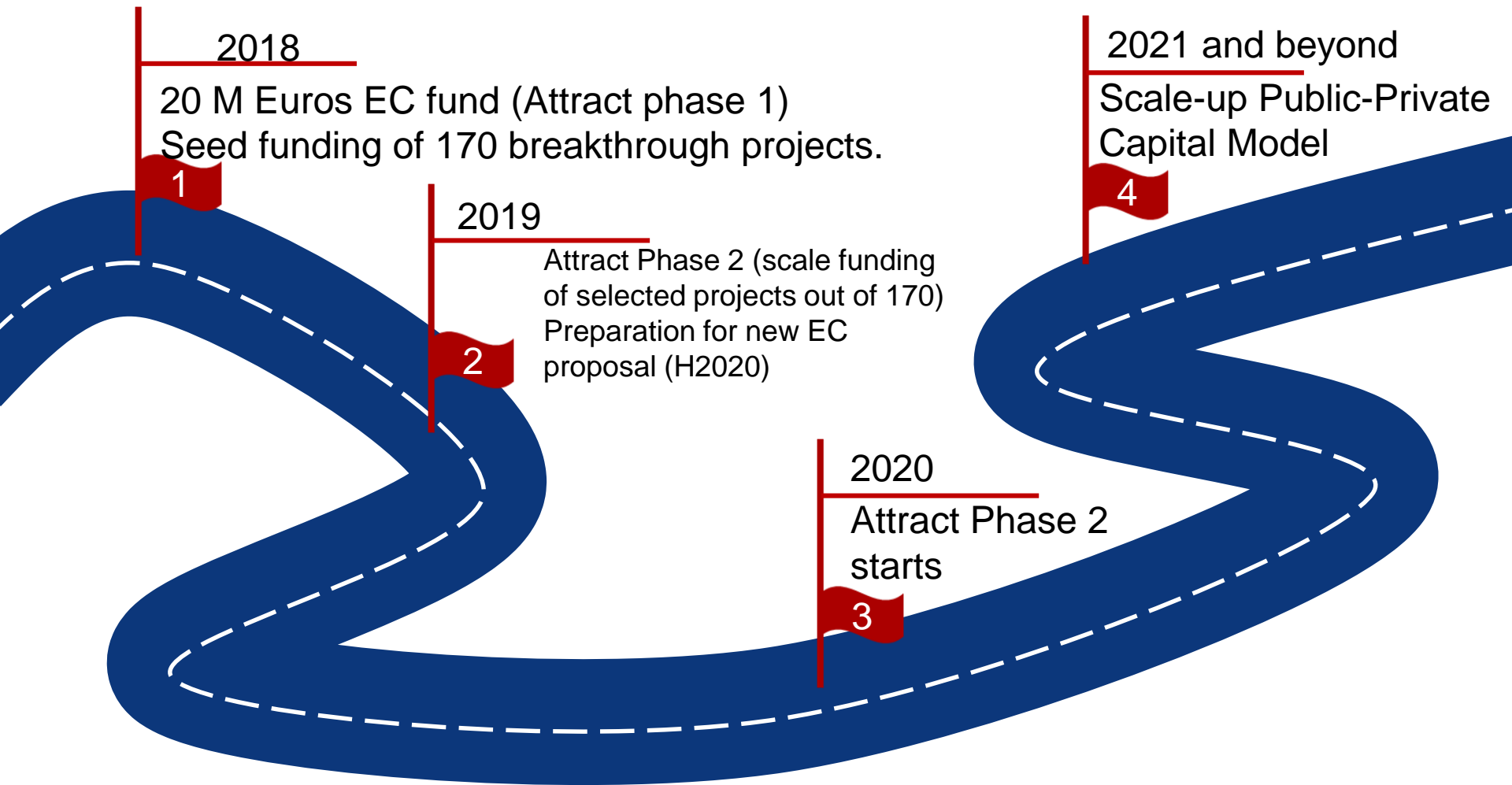


Environment



Sources: Donald E. Stokes, *Pasteur's Quadrant – Basic Science and Technological Innovation*, Brookings Institution Press, 1997.

Roadmap



Some Examples

Industrial Sector	Examples of ATTRACT fields of contribution	ATTRACT Examples	Technological
ICT	Optoelectronics, Communications, Computing, Micro-nano electronics, MEMs, Connectivity and Data Traffic, etc.		
Energy	Intelligent Energy Production and Management (Grid), Renewable Technologies, Real time Power Plant monitoring, etc.	Radiation hard sensors and Systems.	
Process Industries	Process Control and Optimization, High Performance Materials, Water Management, Waste Management, etc.	Big Data analysis and management hardware and software systems.	
Manufacturing	Remote and automated control, Adaptive Manufacturing Systems, Digital-Virtual Factories, Resource Efficient manufacturing, etc.	Enhanced and virtual reality technologies.	
Aeronautics	Advanced Materials, Air Traffic Control, Structural Monitoring, etc.	Cyber physical systems.	
Medical	Medical Imaging, Radiation Therapy, Big Data Acquisition and Management, Dosimetry, Drug Discovery, Telemedicine, etc.	Data Transmission and Encryption (Software and Hardware Systems).	
Robotics	Industrial and civil robotics, human-robot interaction, Sensing, Perception, Cognition, etc.	Data Traffic Algorithms.	
Space	Earth Observation, Big Data Acquisition and Analysis, Radiation Hard Systems and Equipment, Navigation Systems, etc.	Computed Tomography.	
Transport	Intelligent and Connected Vehicles, Logistics, Vehicle-Infrastructure communication, etc.	Advanced micro-nano materials and production processes.	
		High Performance Computing.	
		Etc.	

More information

- ATTRACT web page: <https://attract-eu.com/>
- Information session on ATTRACT: <https://indico.cern.ch/event/728232/>
- LinkedIn: <https://www.linkedin.com/company/attract-eu>

Disclaimer: Parts of this presentation were taken from M. Norberg's presentation on May 23rd.



ENGINEERING
DEPARTMENT

Thank you!