

## TechnipFMC Ventures

Corporate venturing and open innovation



# TechnipFMC at a glance

## Vision

To enhance the performance of the world's energy industry

## Purpose

Bringing together the scope, know-how and determination to transform our clients' project economics



# A unique global leader in oil and gas

## Subsea

### Subsea products

- ▶ Trees, manifolds, control, templates, flowline systems, umbilicals and flexibles
- ▶ Subsea processing
- ▶ ROVs and manipulator systems

### Subsea projects

- ▶ Field architecture, integrated design
- ▶ Engineering, procurement

### Subsea services

- ▶ Drilling systems
- ▶ Installation using high-end fleet
- ▶ Asset management and production optimization
- ▶ Field IMR and well services

## Onshore/Offshore

Project management, proprietary technology, equipment and early studies to detailed design

### Offshore

Fixed platforms (jackets, self-elevating platforms, GBS, artificial islands) and floating facilities (FPSO, semi submersibles, Spar, TLP, FLNG)

### Onshore

Gas monetization, refining, petrochemicals, onshore pipelines, furnaces, mining and metals

### Services

Project management consultancy, process technologies

## Surface

- ▶ Drilling, completion and production wellhead equipment, chokes, compact valves, manifolds and controls
- ▶ Treating iron, manifolds, and reciprocating pumps for stimulation and cementing
- ▶ Advanced separation and flow-treatment systems
- ▶ Flow metering products and systems
- ▶ Marine, truck, and railcar loading systems
- ▶ Installation and maintenance services
- ▶ Frac-stack and manifold rental and operation services
- ▶ Flowback and well testing services

# Ventures and open innovation

## **Mission**

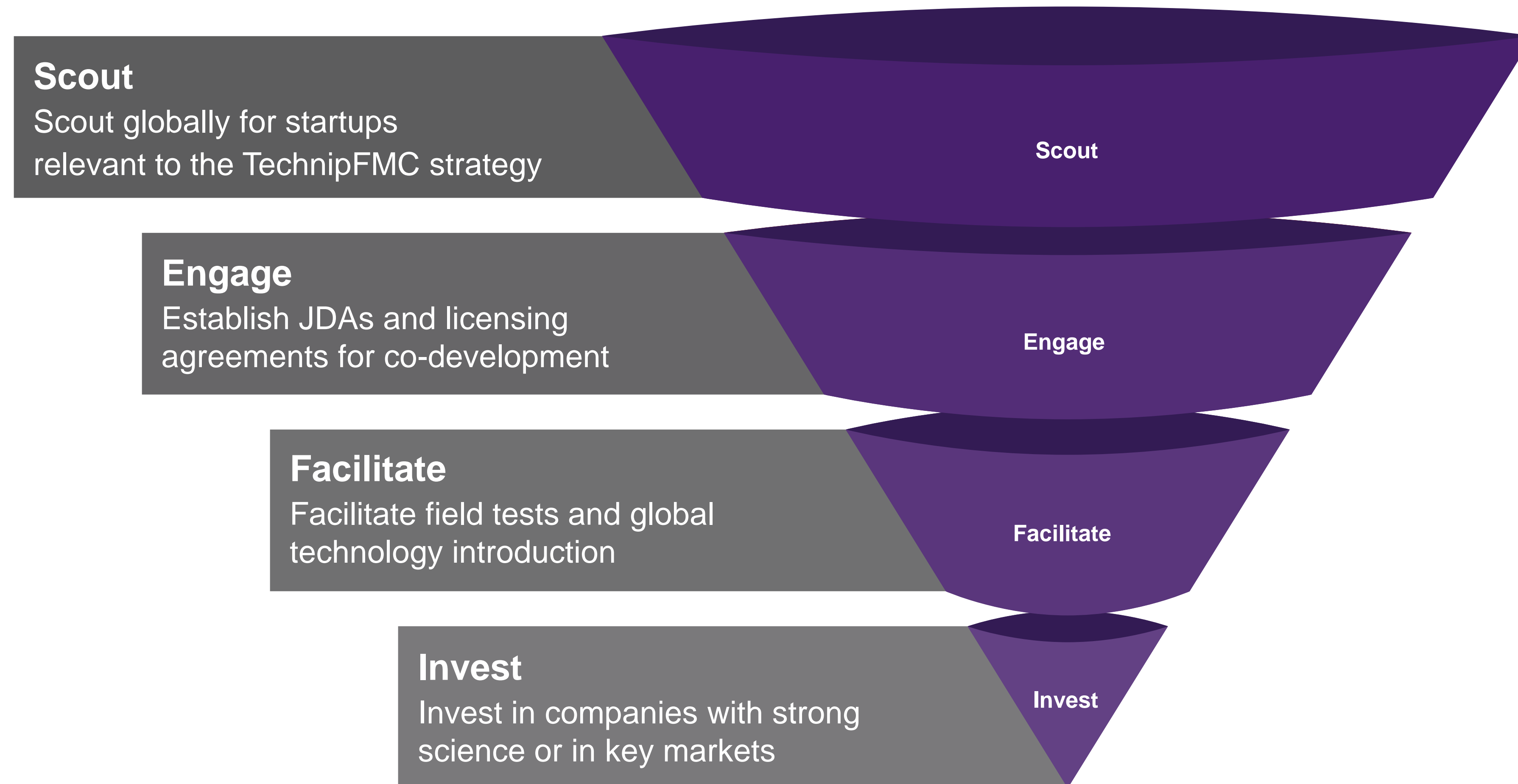
Accelerate the pace of innovation by leveraging external ecosystems.

## **Vision**

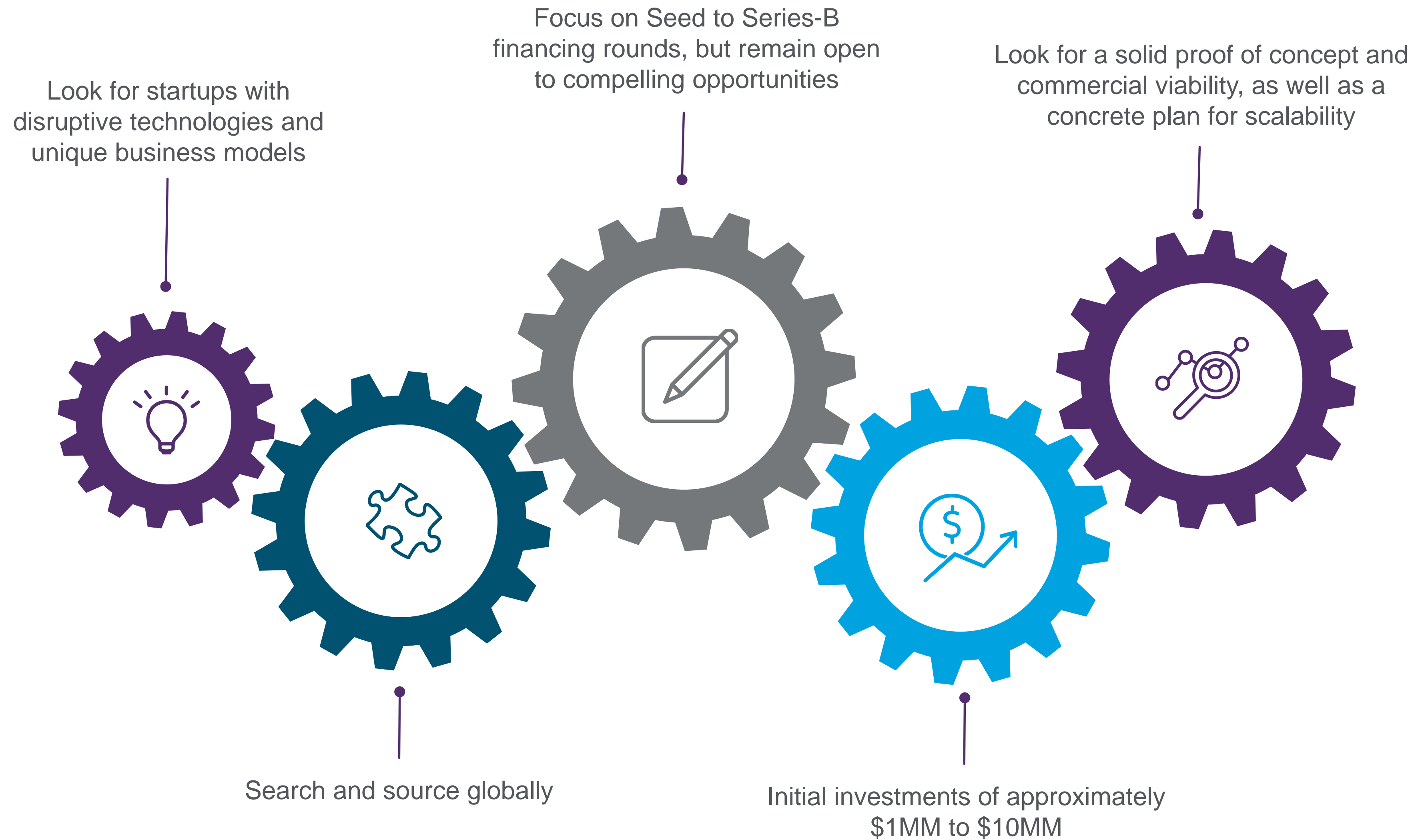
To foster and encourage a culture of innovation that inspires our teams to seek “better ways” of solving problems and serving our customers.

To unite external innovation with internal business to enhance our company performance.

# What we do



# Corporate venturing and open innovation

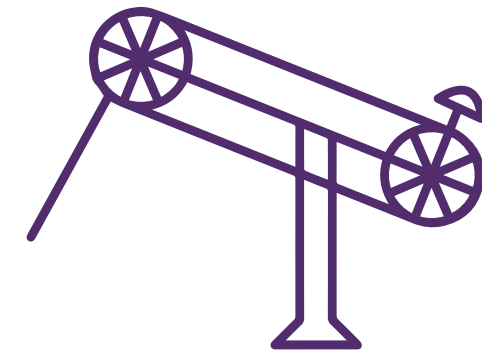


# Technology verticals



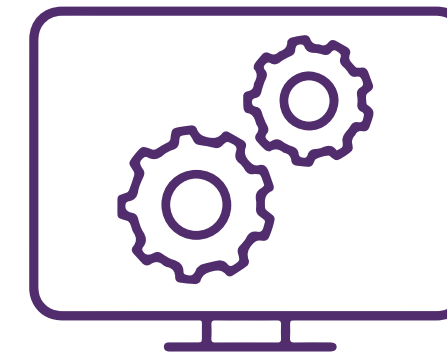
## Energy transition and sustainability

- ▶ Power and storage
- ▶ Cleantech
- ▶ Sustainability



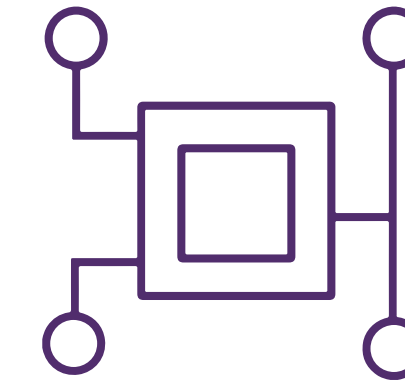
## Industry 4.0 and smart operations

- ▶ Robotic
- ▶ Detection / IoT
- ▶ Networking / connectivity



## Digital / computer science

- ▶ Data
- ▶ Visualization
- ▶ Project Management 2.0
- ▶ AI



## Emerging materials and processes

- ▶ Nano
- ▶ Composites
- ▶ Fiber optics

# Technology watch

Energy transition and sustainability	
Power and storage	
Inductive / conductive charging	H2 transport, cryogenics and storage
Power electrification and transport ●	Local power generation ●
Renewable energies	Batteries Flow and Recycling
Fuel cells (hydrogen/methane) ●	Blue H2 (from hydrocarbons) ●
Kinetic and chemical storage	Clean gas to power
Cleantech	
Methane capture and storage	CC&S and Carbon Management ●
Methane leak detection	Subsea / offshore power
Green Hydrogen / pyrolysis	Photocatalyst ●
New biofuels generation	Green chemicals ●
Sustainability	
Energy architecture integration	Heat storage & HT generation
Fatal energy valorization	Waste and plastic management
Digital for energy efficiency	Water Treatment
Fleet engines	Bio-sourced/degradable materials

Industry 4.0 and smart operations	
Robotic	
Autonomous vehicles ●	Swarm drones
Drone Software	Robotic welding
Navigation / SLAM	Self healing machines
Subsea drones / crawlers ●	Exoskeletons ●
Detection / IoT	
Computer vision	NDT
Leak detection	Laser point modelling
Satellite modelling / tracking ●	Acoustic modelling
Smart construction equipment ●	Wearable device
IoT sensors / hardware	Satellite IOT Network
Network / connectivity	
Machine to machine ●	Hardware to software
Interconnectivity on site	Wireless networks ●
5G	Underwater acoustic / Lidar
Data communication ●	Data transfer / sharing continuity

Digital / computer science	
Data	
Data Management platform / API ●	Edge computing and cloud ●
IT-Ops and AI-Ops	Industrial cybersecurity
Biometric readers	Blockchain smart contract
Blockchain tracking & traceability	SaaS platform
Visualization	
3D / 4D ●	Digital twin software ●
AR solutions ●	VR solutions ●
Project management 2.0	
Intelligent planning / Mission ●	Construction and project platform ●
Risk management solutions ●	Digital Logistics
Building Information Modelling	Knowledge / Resource Management
AI	
Predictive models ●	Embedded AI
Voice interface	Assisted design
Intelligent text	Research engines & data lake
Detection algorithm	Asset utilization and performance ●
Integrity monitoring ●	Data structuring / cleaning

Emerging materials and processes	
Materials and processes	
Nanomaterials / nanofluids ●	New coating techniques
Metal organic frameworks (MOF)	Additive manufacturing
Composites ●	Catalysts
Carbon fibre resin / Carbon fibre	Active heating ●
Separation processes / Membranes	Corrosion/erosion resistant
Electrochemical cells	Welding & joining
Cryogenic & subsea concrete	Shape forming materials
Fiber optic sensors ●	Novel plastics



# Value proposition



The opportunity to prove your technology or business model with a world class technology provider



Support during growth and scaling with TechnipFMC's technical expertise, industry knowledge, and network



Collaboration with a reliable and stable partner with a strong reputation in the industry gained through decades of experience



Access to TechnipFMC's global sales channels and client base to test your concept



Capital required to prove and de-risk your concept

# TechnipFMC ventures team



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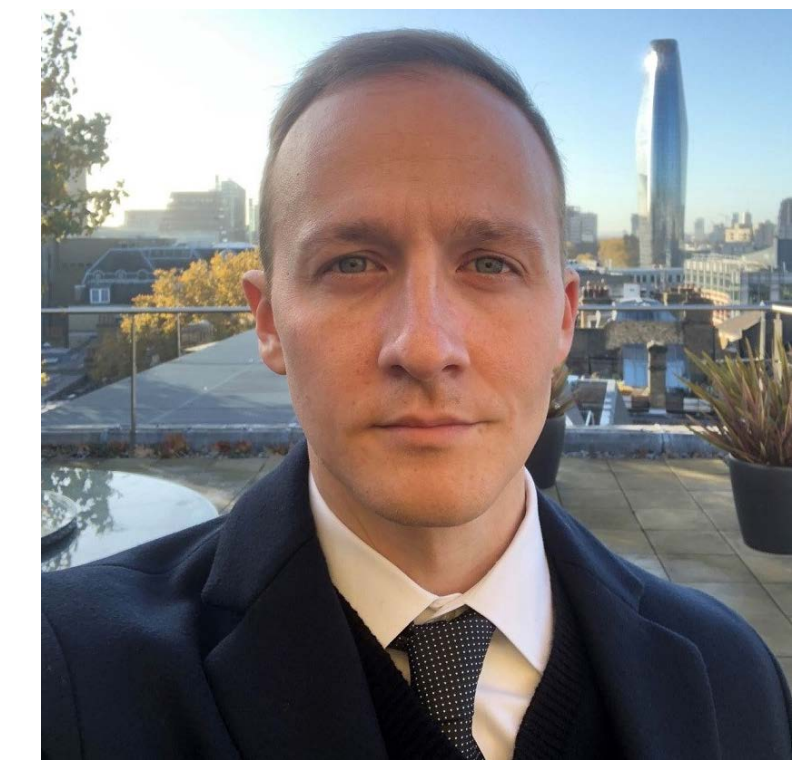
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