Testbed Estance

SPACE INNOVATION FORUM 4 - 5 September 2019

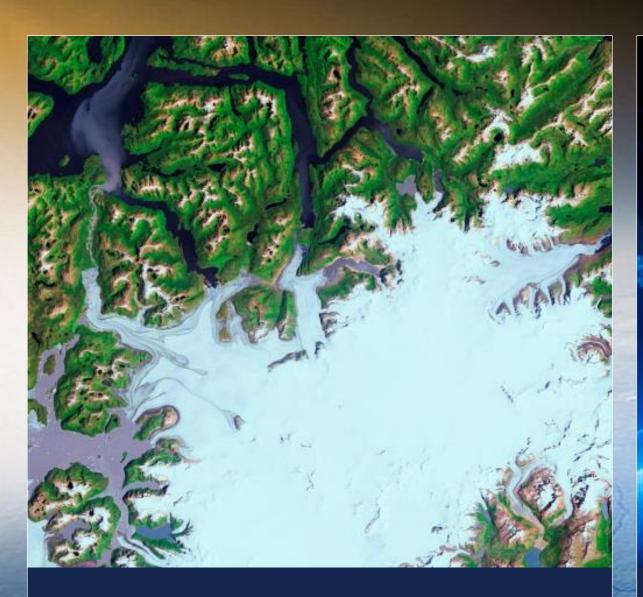
Philip Påhlsson







WHAT IS DRIVING THE CHANGE?



Earth **Observations**

Positioning & Navigation

- Transfer of critical infrastructure into the space segment
- Low cost access to space
- Real-time access to global EO/telecom data





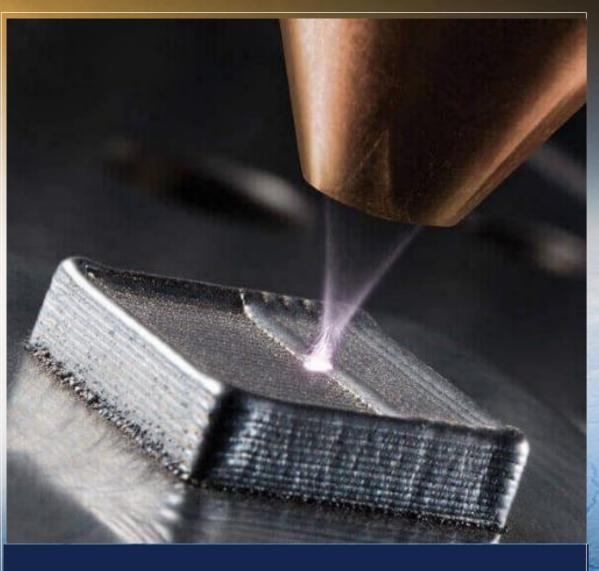




Communication

Risk Management

PREREQUISITS FOR CHANGE





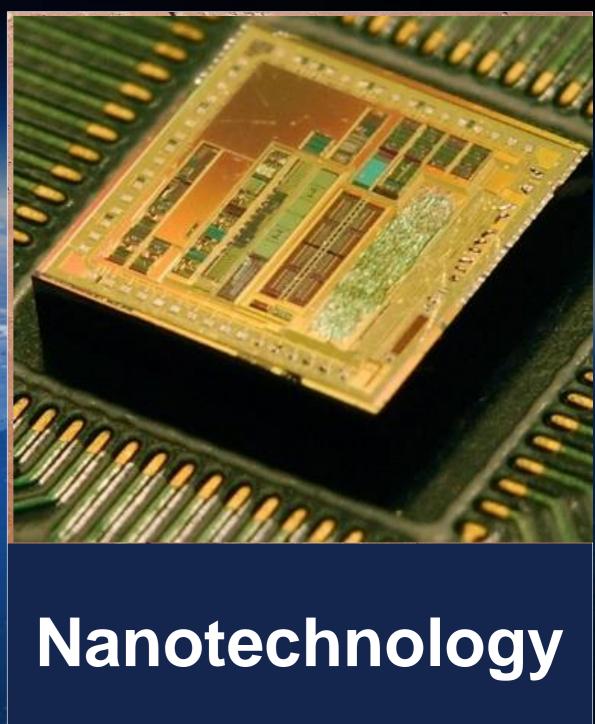
Manufacturing processes

Automation and A

 Industrialization Spin-in from other industry







Big data



SMALLSAT EXPRESS GOAL

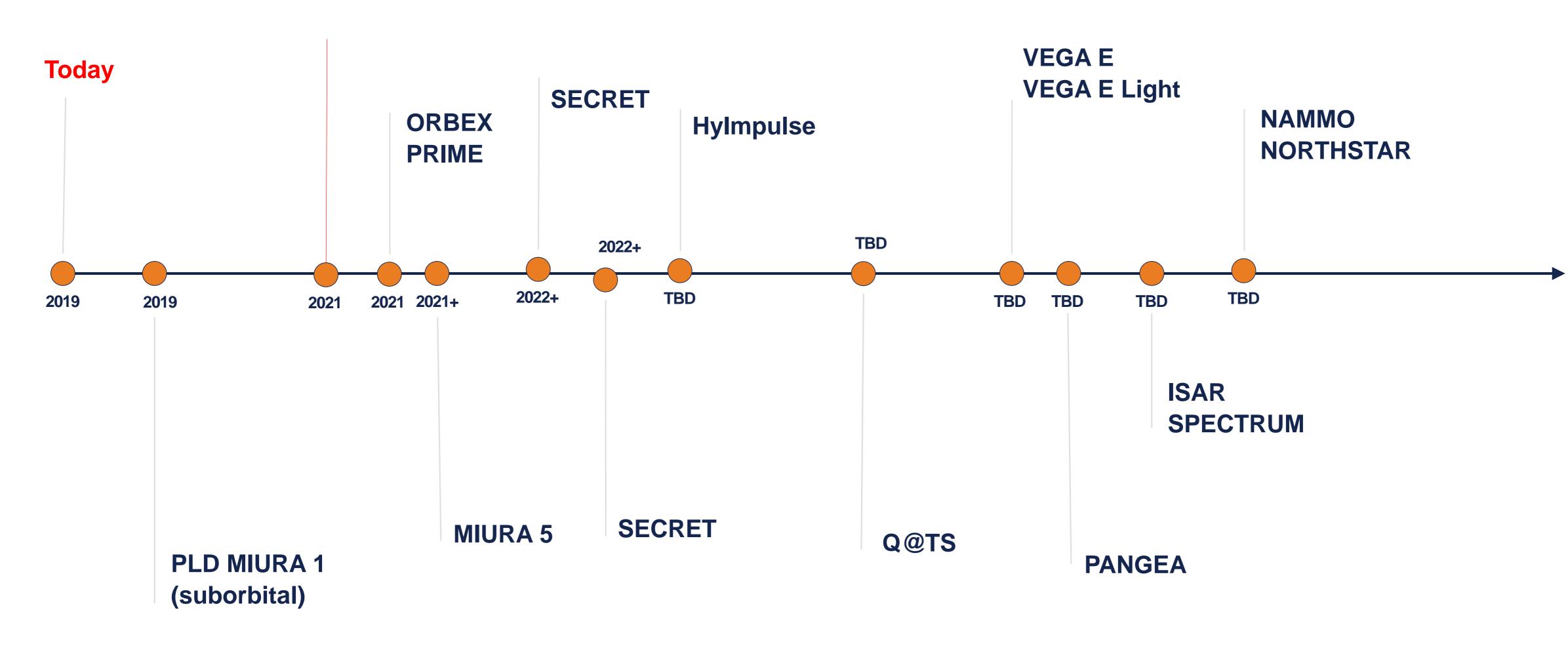
SSC shall launch satellites into orbit from Esrange before the end of 2021, making Sweden the primary European location for launching small satellites.





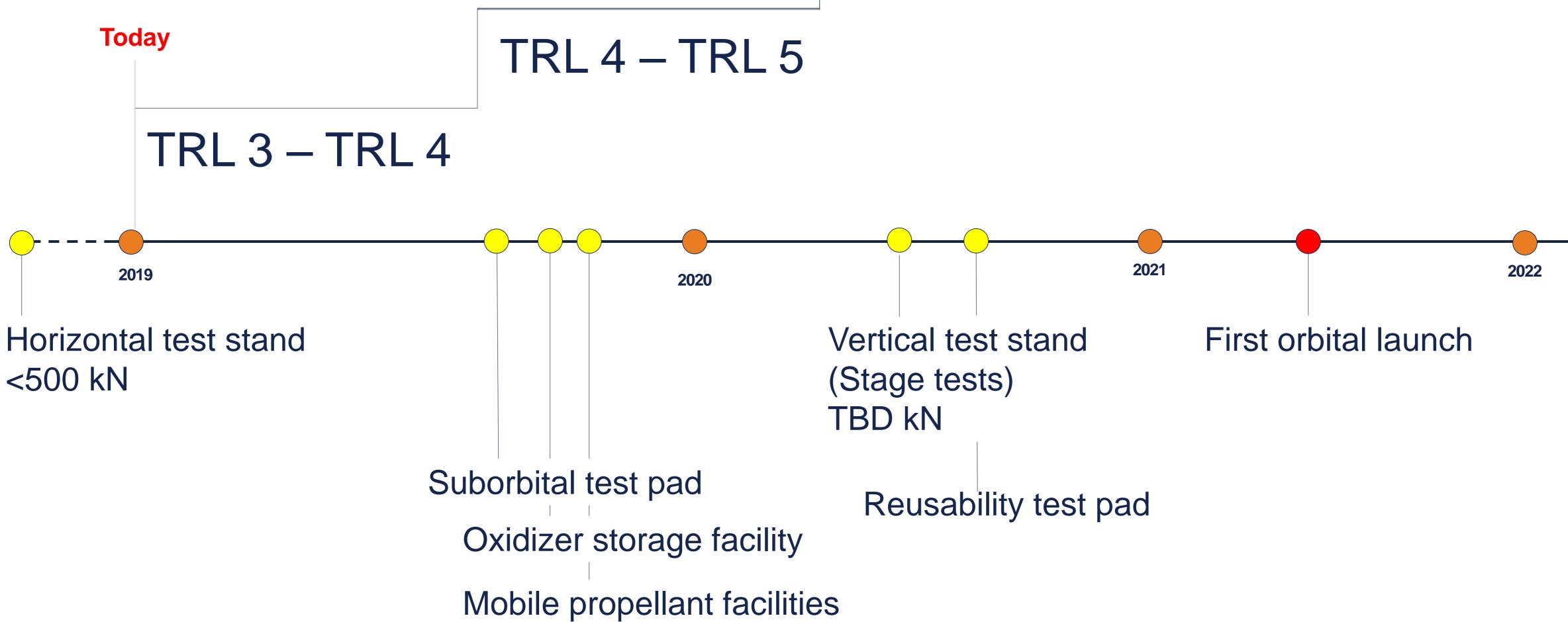
EUROPEAN MICROLAUNCHERS GENERIC LAUNCH DATES

First Orbital Launch From Esrange





LAUNCHER DEVELOPMENT SSC STRATEGY TO BOOST INNOVATION



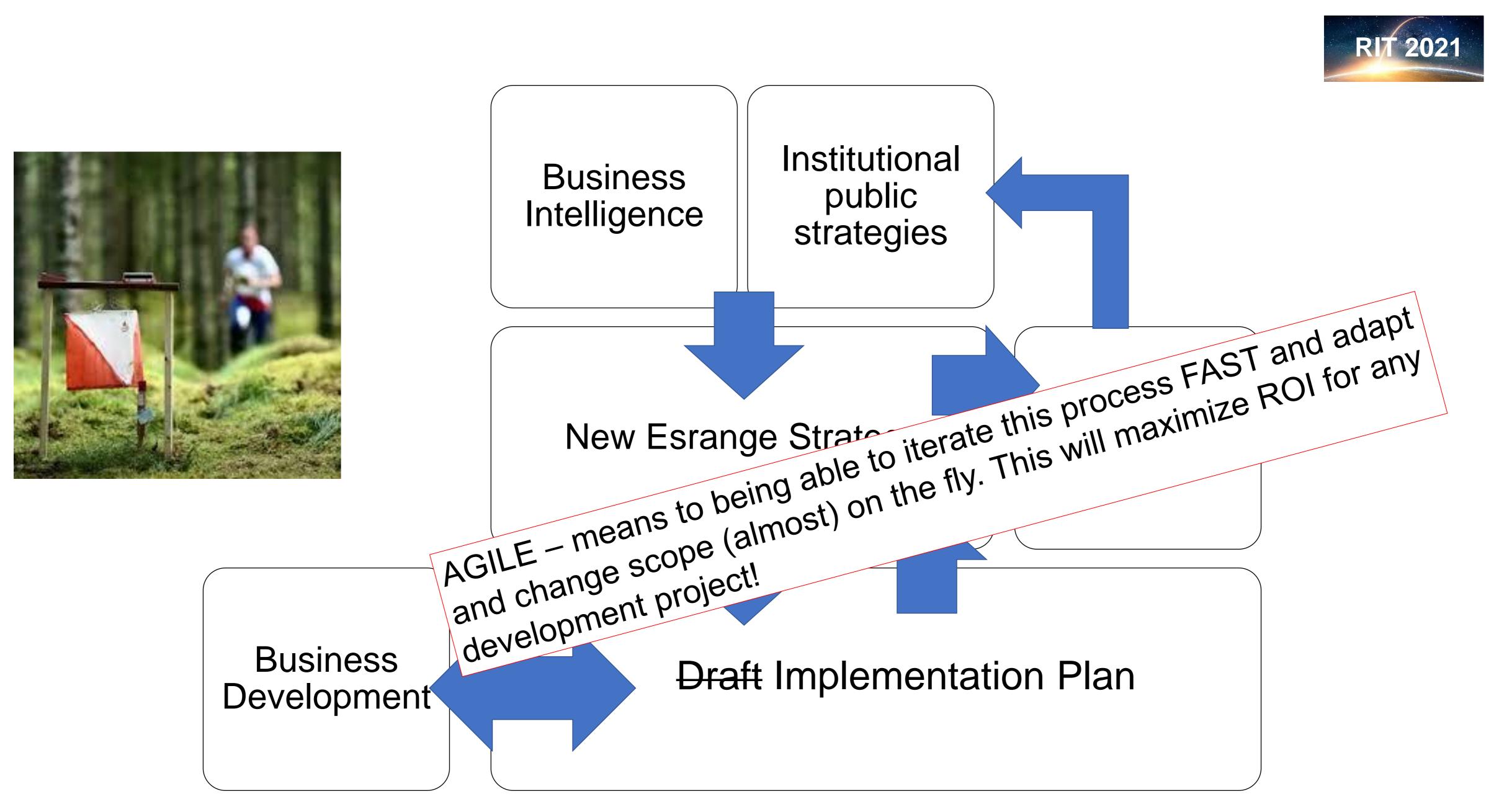


TRL 6 – TRL 8

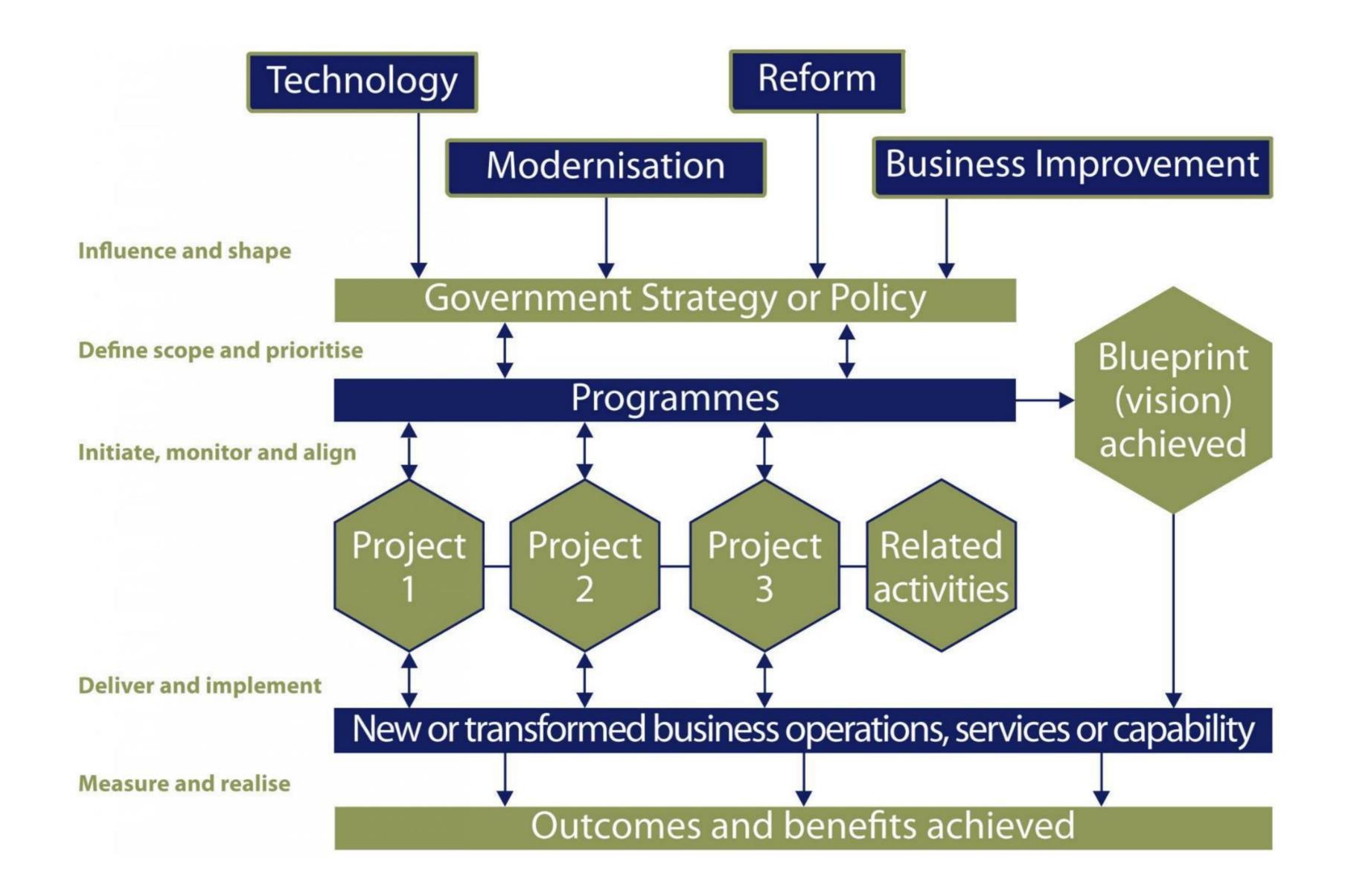
TRL 5 - TRL 6

Global competition
Accelerate time to market
Challenge assumptions
Find synergies between new and existing capabilities
Early access to testing
Simplify





Build





TESTBED ESRANGE OVERVIEW



Unique support services for:

- Engine development and test
- Stage development and test





TESTBED ESRANGE OVERVIEW



Unique support services for:

- Exploration vehicle and system test
- Reusability testing for launchers
- Sub-orbital rocket test launch

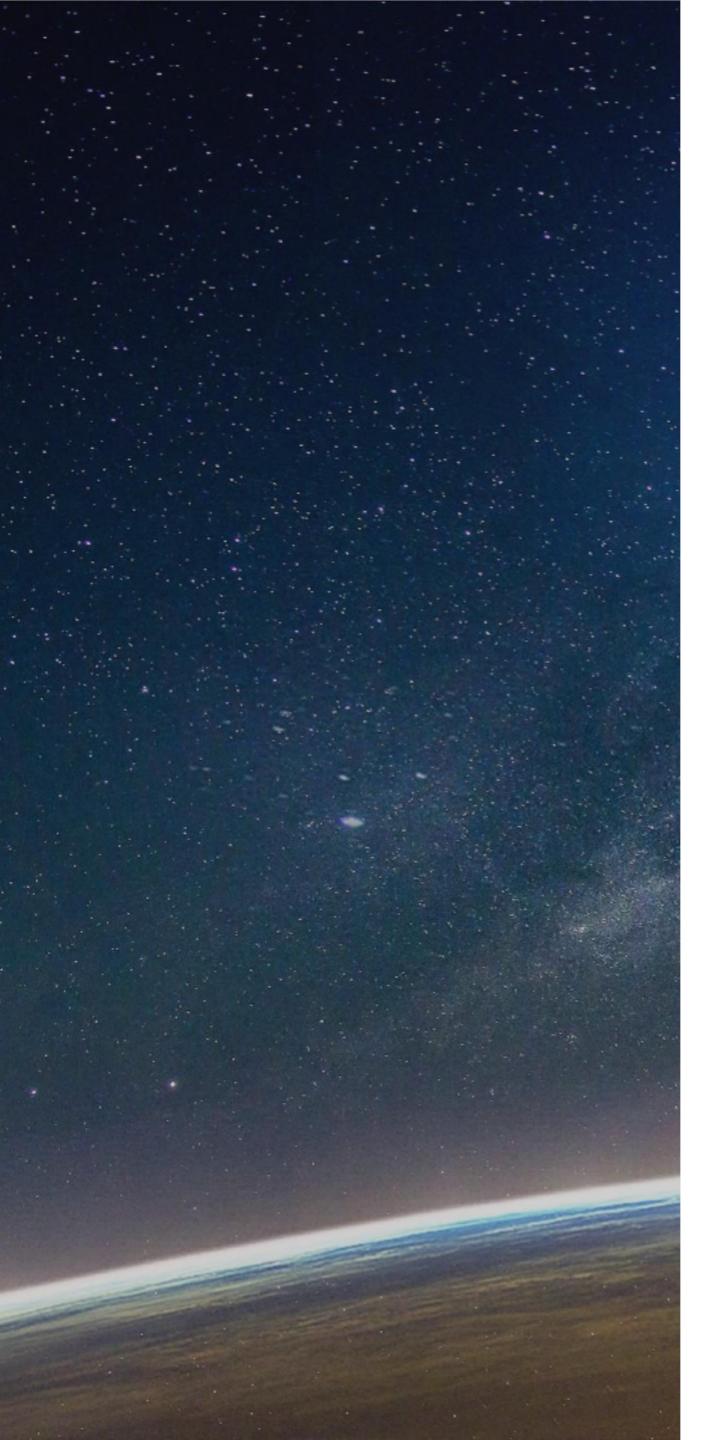












RIT 2021

Operated by







Sweden

Partners



Sponsors



EUROPEISKA UNIONEN Europeiska regionala utvecklingsfonden



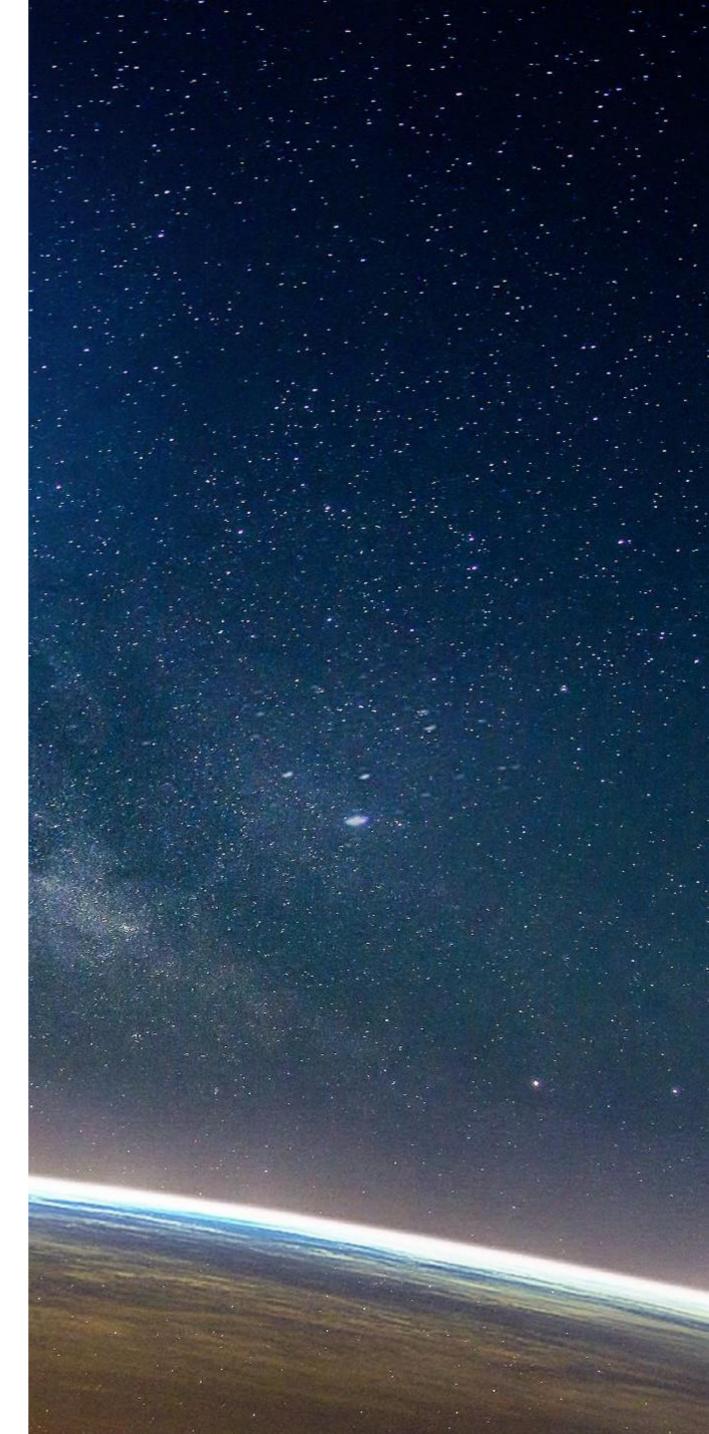
LTU **BUSINESS** AB











SPACE

FANGU

INNOVATION GROWTH COOPERATION

