



Space Infrastructure Development

Sustainable Space Programs

MISSIONS PARTNER

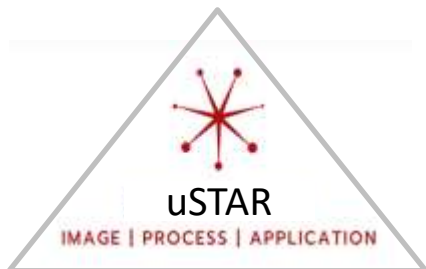
**ENGINEERING
SERVICES**

SATELLITES

**HANDS ON
TRAINING**

SCS SPACE FOCUS AREAS

CONSTELLATIONS AND MISSIONS PARTNER



ENGINEERING SERVICES

Procurement Management (Level 5 to Level 8)

Program Management

Space System Engineering

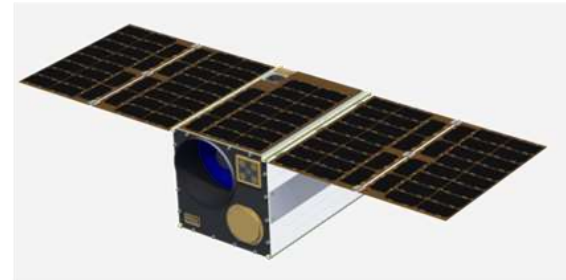
Product Assurance

Technology Management

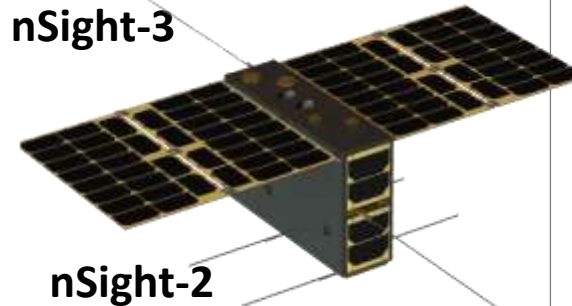
Thin Prime



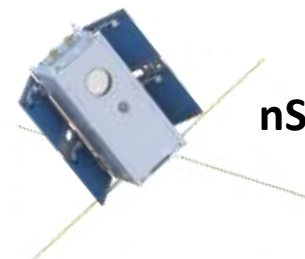
SATELLITES



nSight-3



nSight-2



nSight-1

HANDS ON TRAINING

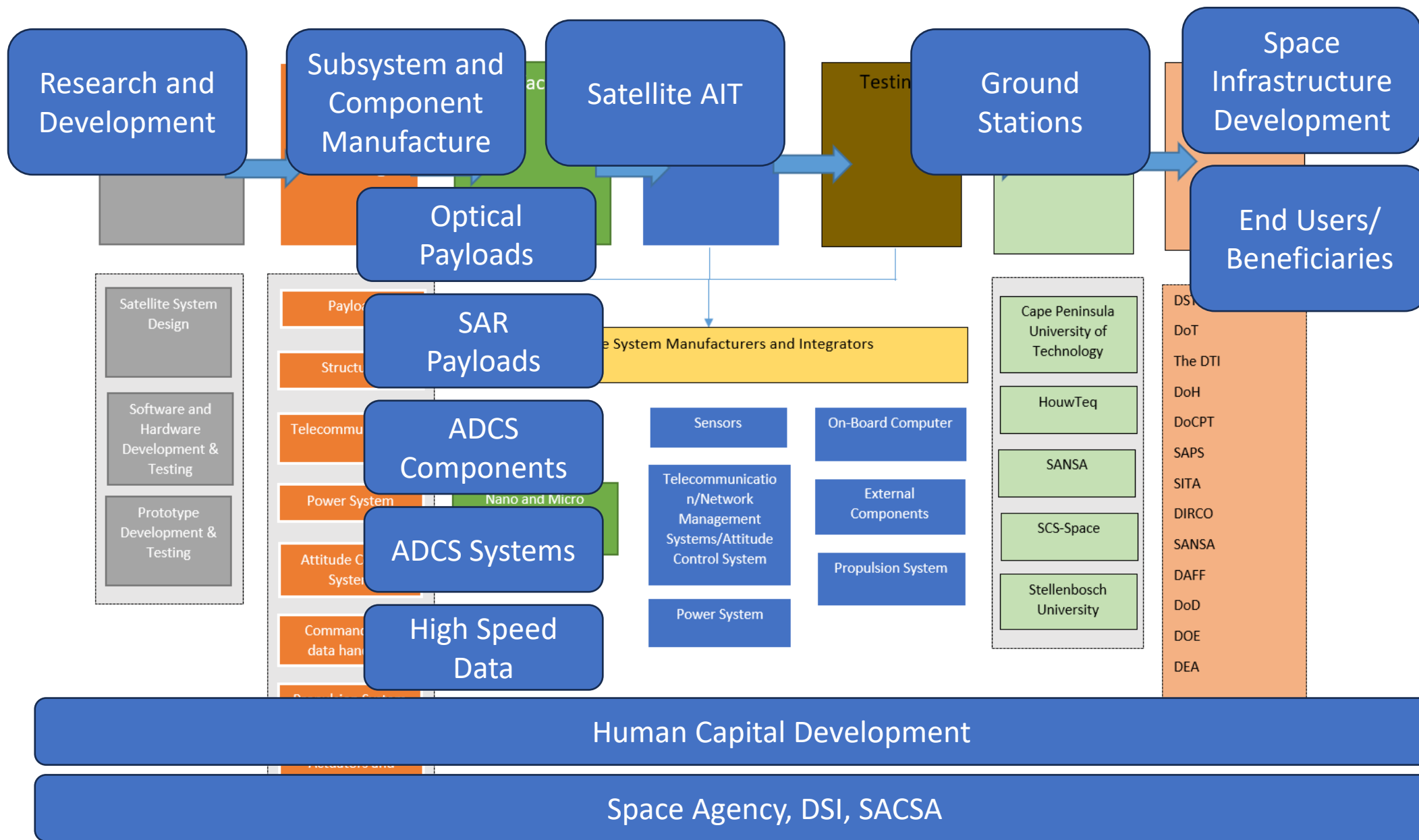
Mission Analysis and Design

Space System Engineering

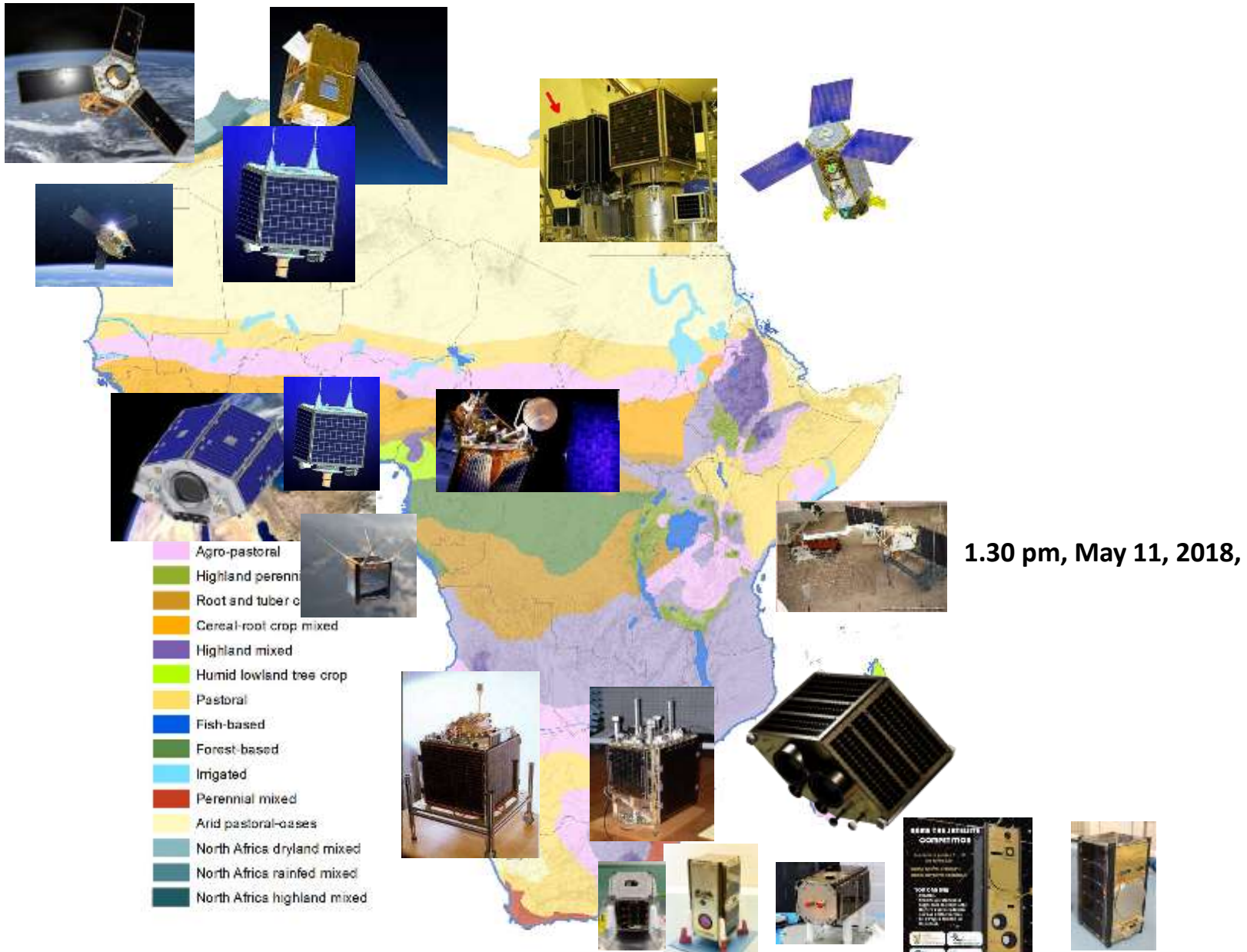
Theory and Practice designing and building 2U, 3U and 6U satellites

Establish own space engineering laboratory





SA Value Chain Expanded



Data source: Dixon, Soffe, and Garrity 2014.
 Note: See glossary for definitions of specific farming systems:

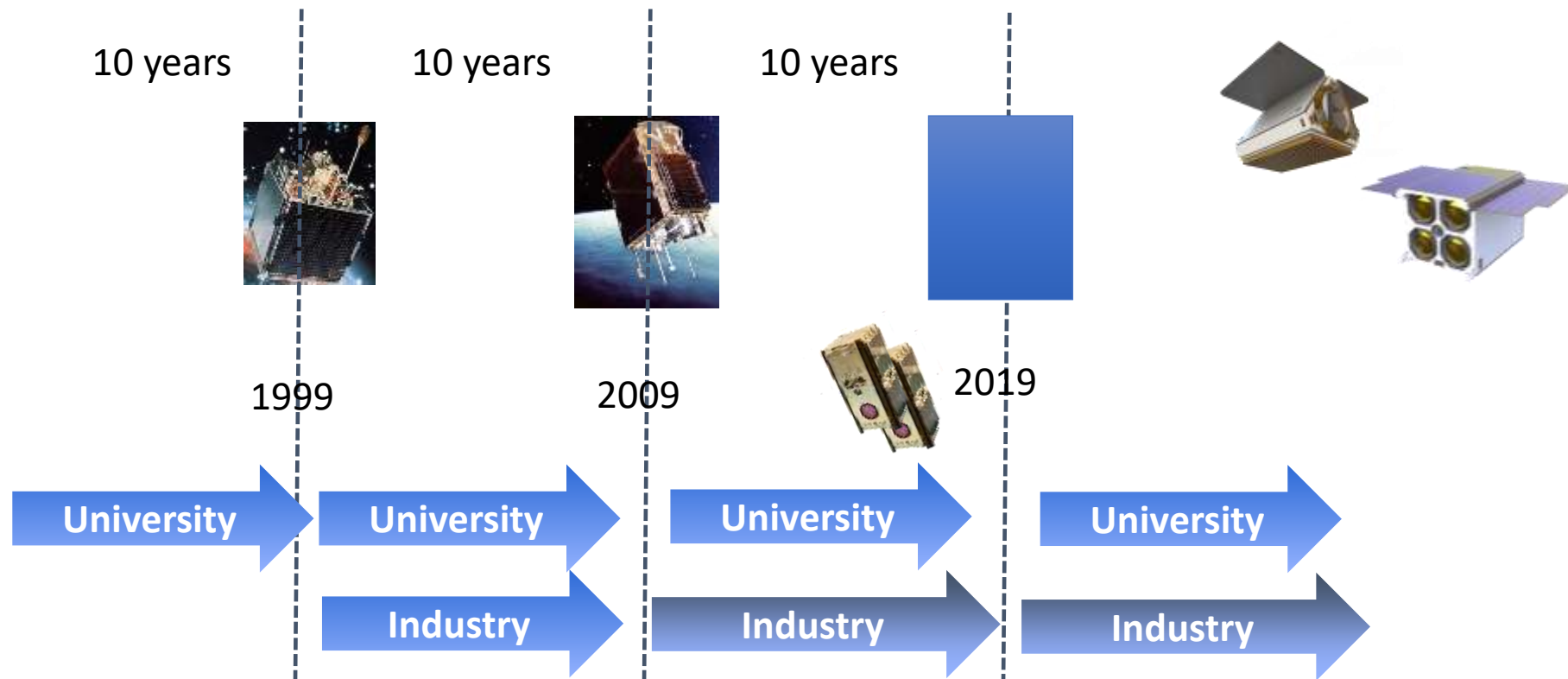
MDA Sat 1a, b, c

The Ten Year Challenge

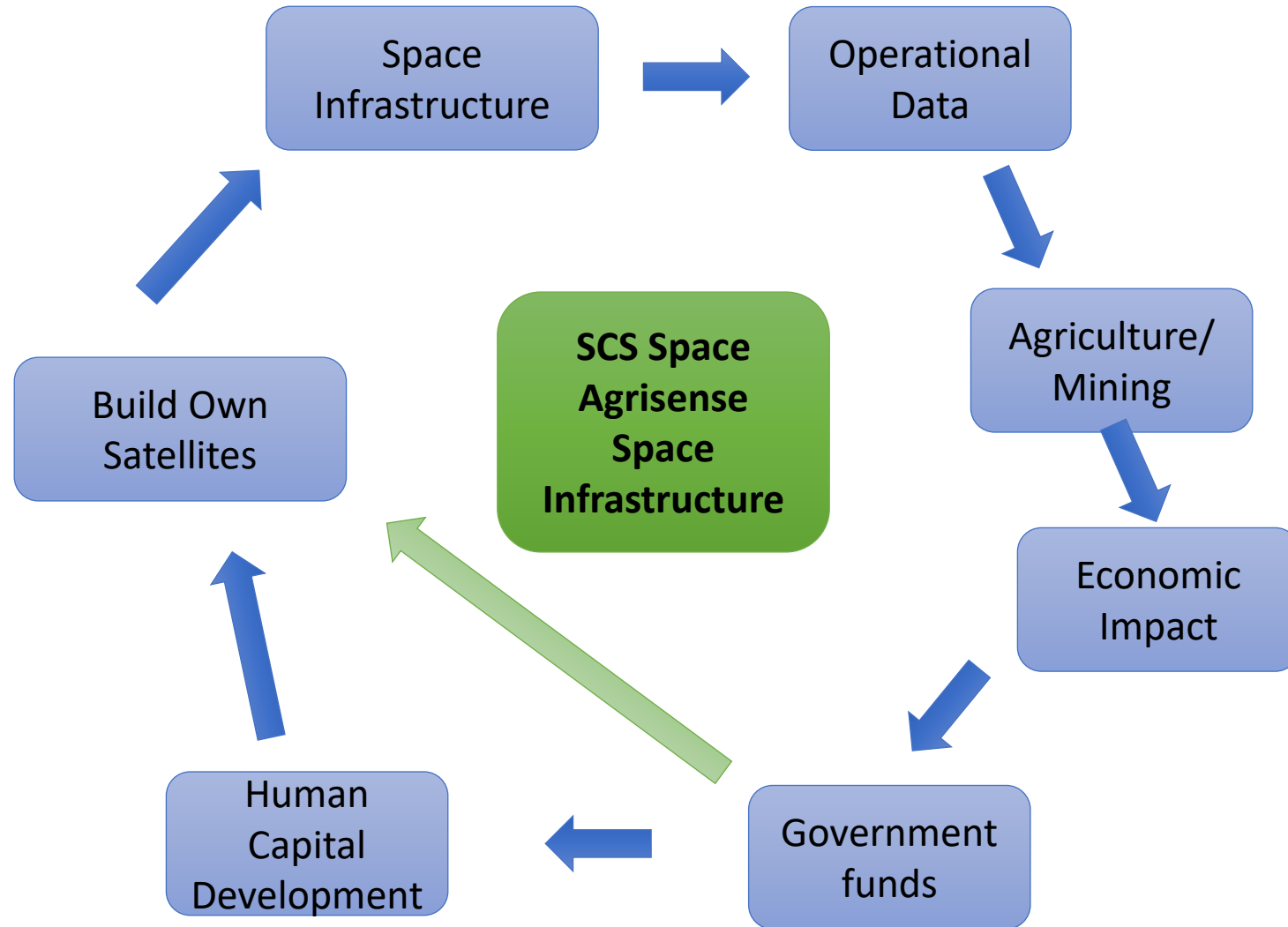
Political motivated decisions – 10 year satellite lifecycle

The challenge – no operational data – no careers for space engineers – very little economic impact

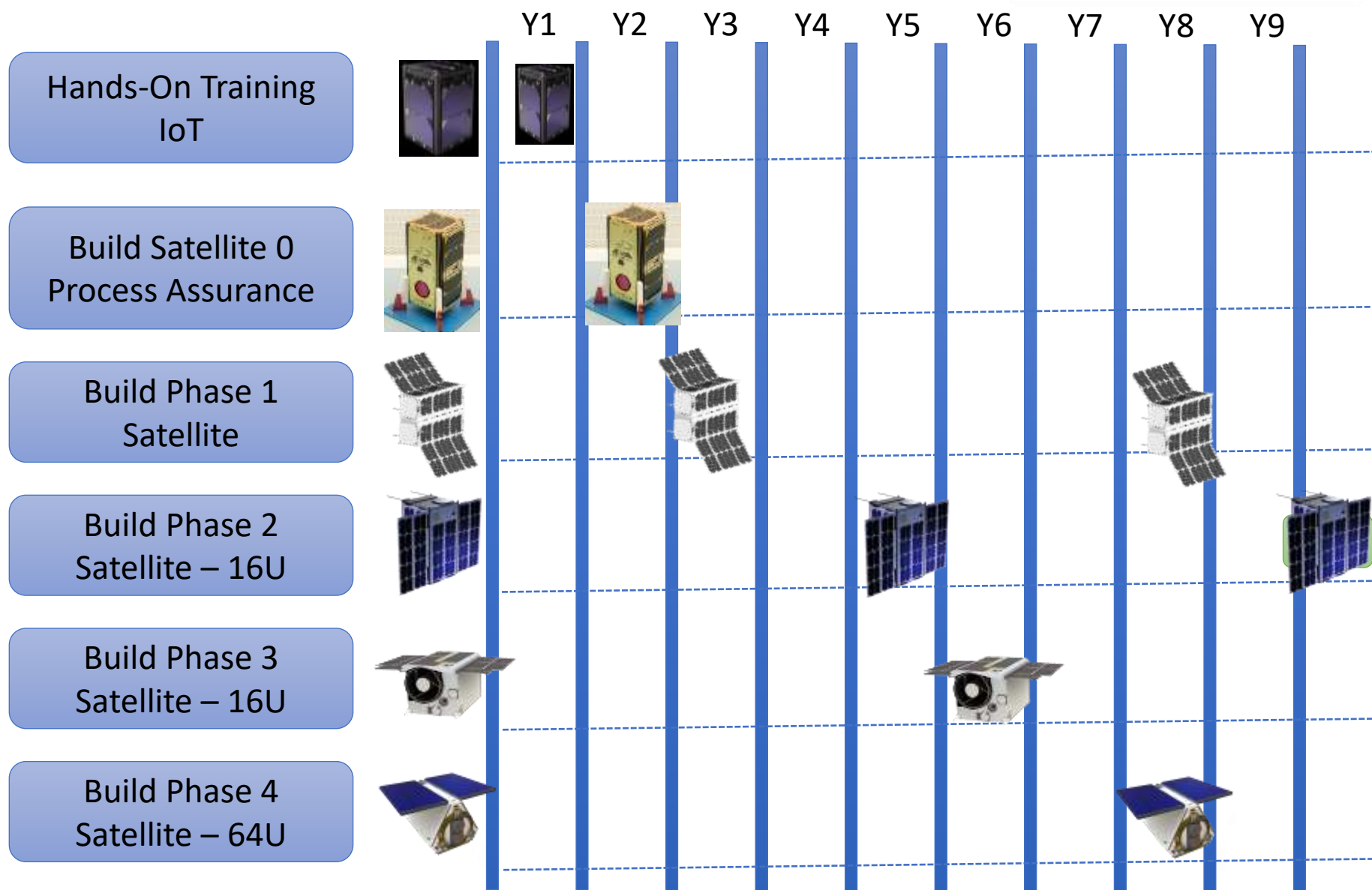
How to establish a long term sustainable space engineering capability?



It is a System Problem



Example of Sustainable Space Program



nSight-1 – 30 m GSD from 2.5 kg satellite – Launched 2017

- JPG 503.7KB (4:4:4) (Within two overpasses)
- RAW 2200 KB (Within 5 days)





Contact us

Dr Sias Mostert
sias@scs-space.com

Turcia Busakwe
Turcia@scs-space.com

Thongwane Namane
Thongwane@scs-space.com

www.scs-space.com
+27 21 300 0060

