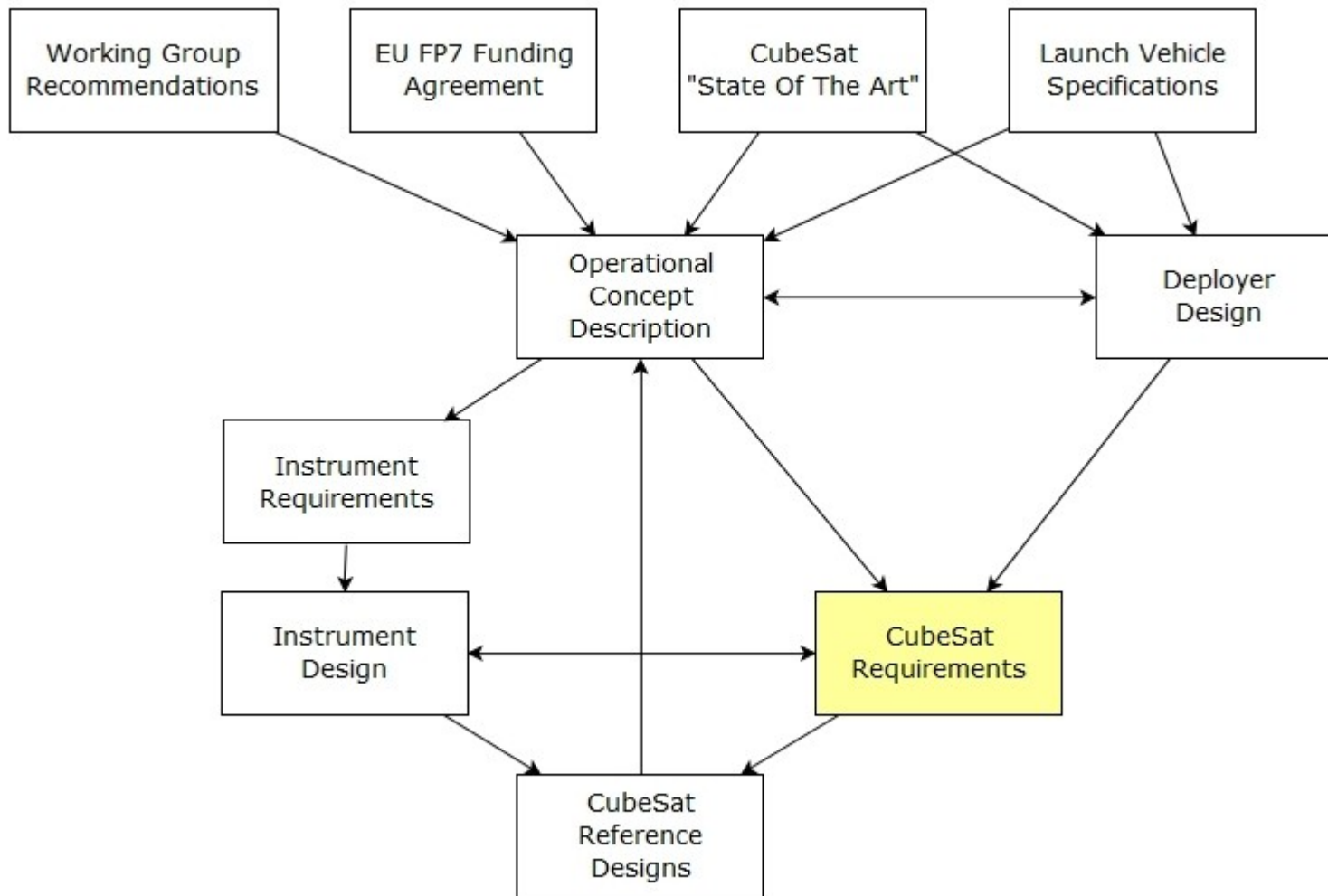# Requirements for CubeSats
&
Technical Specifications

Derivation of Requirements

Requirements Documents

- Call for Proposals

- QB50 CubeSat Requirements and Interface Control Document

  - QB50 CubeSat Specification

  - QB50 Deployer Specification

  - QB50 Environment Levels Specification

  - RF Communications Specification

  - Science Requirements and Interface Control Document

CFP Consolidated Requirements

NO.	DESCRIPTION	PERFORMANCE REQUIREMENT	SOLUTION	COMPLY (yes/no)	VERIFICATION METHOD
SE-2	System Budgets and Margin	Budgets for: Mass, Power, Data Storage, Processor MIPS, Data Downlink, Link Budget. With margin as specified.	Budgets updated at design review. Initial budgets attached.	yes	Inspection
ADCS-2	Velocity-vector pointing accuracy	Attitude shall be maintained to less than 5 degrees from the velocity vector	Wheels, torquers, sun sensor, magnetometer, ADCS	**no**	Analysis
SE-9	Vibration testing	Comply with the QB50 Environmental Qualification Spec., sections 3 to 5	Test using vibration table at VKI	yes	Test
SCI-2	Instrument electrical & data Interface	Comply with Science Instrument Interface Specification section 6	Design and build as specified	yes	Demonstration