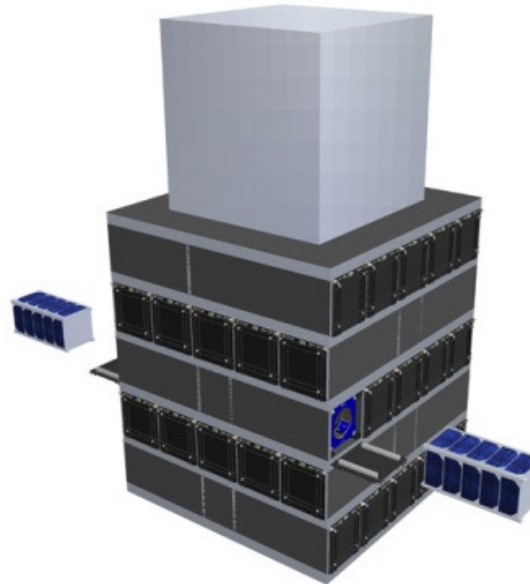




QB50 Deployment system



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ISIS

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*von Karman Institute
for Fluid Dynamics*



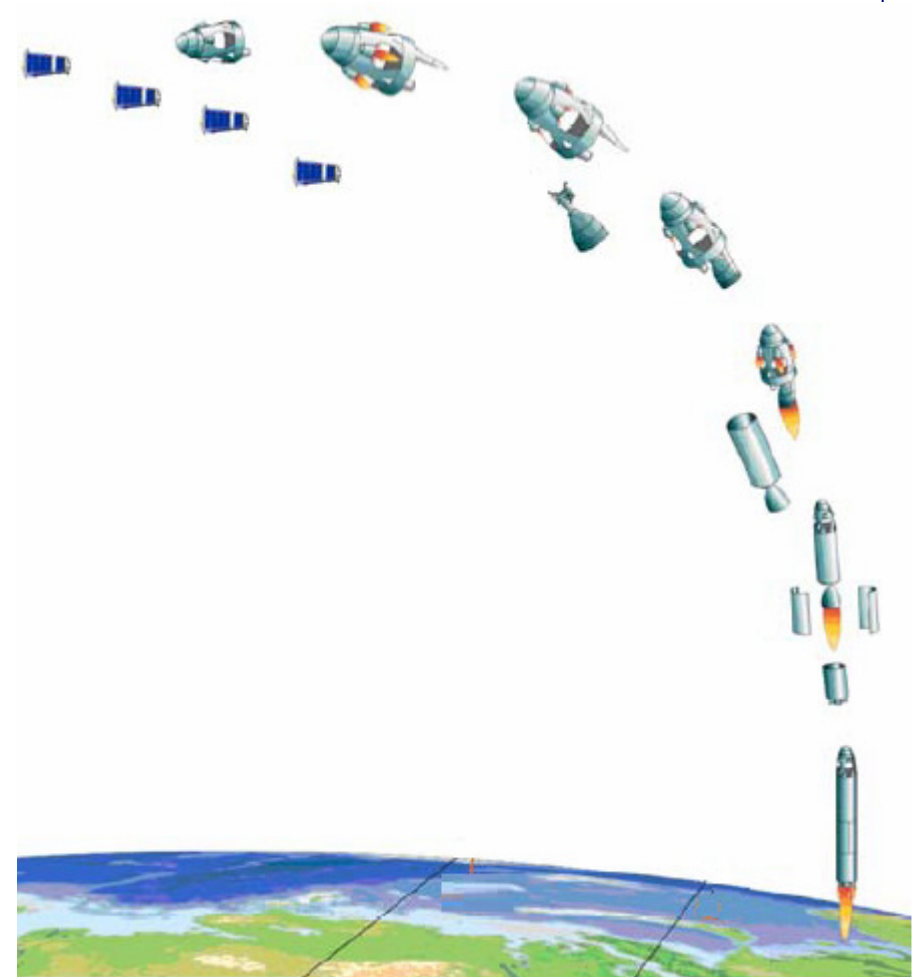
Contents

- **Introduction**
- **Requirements & Constraints**
- **Configuration**
- **Operation**
- **Conclusions**



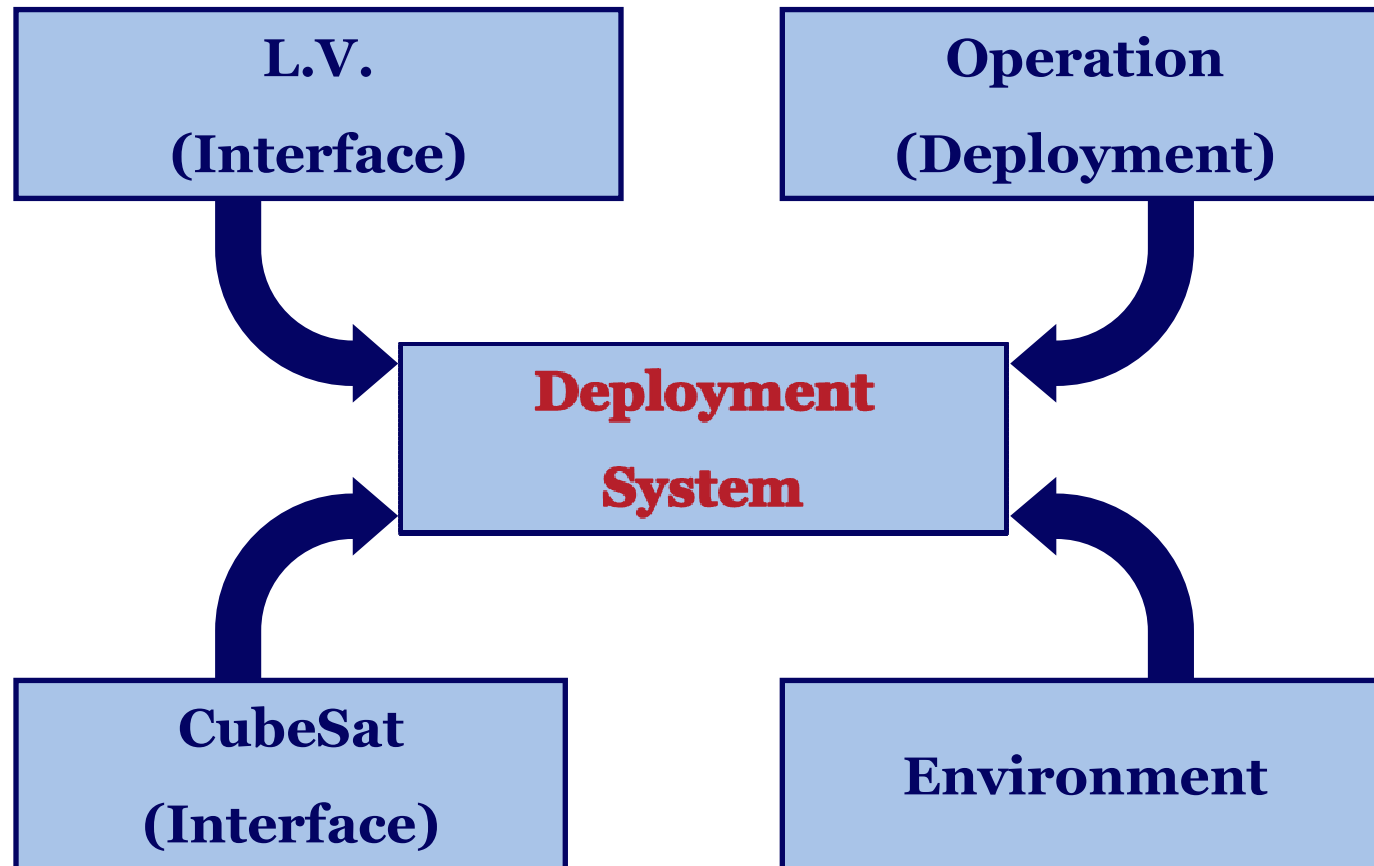
Introduction

- **Introduction**
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Requirements & constraints

- Introduction
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- Configuration
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- Conclusions





LV Requirements & constraints

- Introduction
- **Requirements & constraints**
- Configuration
- Operation
- Conclusions

Documents:

- CubeSat specification
- Deployer specification
- Environment levels specification

Environment: Shtil-2.1 Launcher imposed

Ongoing discussions Shtil-2.1 LV operator (Makeyev)



LV Requirements & constraints

- Introduction
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Qualification [TBC]:

- Physical properties
- Acceleration
- Resonance survey
- Vibration
 - Sine
 - Random
 - Acoustic
- Shock
- Thermal
- Analysis

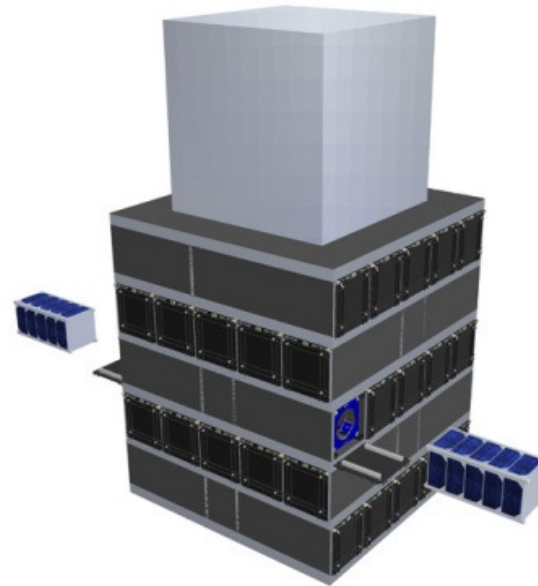
Acceptance [TBC]:

- Physical properties
- -
- Resonance survey
- Vibration
 - -
 - Random
 - -
- -
- Thermal
- -

Configuration

- Introduction
- Requirements & constraints
- **Configuration**
- Operation
- Conclusions

A custom platform for QB50 is being designed





(towards) **Operation**

Development of design

- Introduction

Iterate design

- Requirements & constraints

Perform QT on QM

- Configuration

Perform AT on FM

- Operation

Launch

- Conclusions

Operate on-orbit FM





Conclusions

- Introduction
- Requirements & constraints
- Configuration
- Operation
- **Conclusions**

Ongoing Design efforts





Conclusions

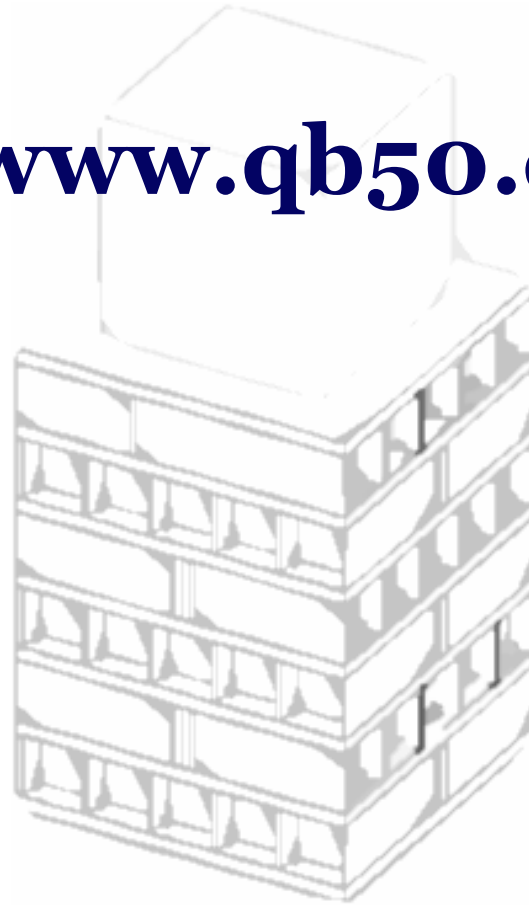
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Ongoing Design efforts

What essential information are YOU currently missing or lacking to submit a challenging and competitive proposal for your QB50 CubeSat?



www.qb50.eu



www.isispace.nl