



# 'Ignition, Lift off and Docking to the future'

Microgravity platform

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# Microgravity policy

- Where does it hurt
- How do you support this?
- What do you want with step 1
- Why do you want to achieve this
- Where is the pain coming from
- Which causes will be dealt with
- What are the concrete proposals





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## Ignition:

- **Proposal DG ESA: Discovery & Competitiveness**
- **Uncertainties**
  - Budgetary constraints large(r) member states
  - International Space Station
  - EU Contribution
  - Launcher market





# Lift off: ESA Ministerial Council

Issues:

- Launchers
- ISS
- Level of Resources





## Launchers : issues

- Causes: Vega development
- Practical: Vega is relatively expensive
- Principal: What is the meaning of Art. 8 Convention (launcher procurement)



## Main results launchers

- Technical compatibility satellites- launchers
- Order of preference: Ariane/Vega - Soyuz – other
- Costs Vega flight "no unreasonable disadvantage"
- "Participating states" will bear additional costs
- DG will report on 2-yearly basis
- Rockot alternative and back up to Vega
- New production declaration and IGA





## Main results ISS en LoR

### ISS:

- Enveloppe ISS exploitation € 650 mln
- Unblocking in 2 phases

### LoR:

- Science: 2,5% increase per year
- Basic Activities: 199,6 M€/jaar





## Other results

- Aurora
  - ExoMars
  - Core Programme
- GMES
- GSTP 4





# Subscriptions

Totals:

- Expected by ESA: € 8,8 bln
- Subscriptions in Berlin € 8,2 bln





# NLSubscriptions

PROGRAMME	Financ. Envelop	Percentage	Total
			102,2
EOEP 3	1.490,0	2,00%	29,8
GMES Seg1 Phase 1	200,0	2,00%	4,0
ARTES General	1.135,0	0,90%	10,2
GSTP-4	145	3,5%	5,1
ACEP	194,0	2,50%	4,9
Ariane 5 ARTA	557,1	1,00%	5,6
FLPP Period 2 Step1	330,0	1,69%	5,6
VERTA	258,0	1,58%	4,1
Aurora Exomars	592,8	2,00%	11,9
Aurora Core Progr.	160,0	1,00%	1,6
ISS Period 2 Fixed	650	2,00%	9,1
ISS Period 2 Variable		2,00%	3,9
ELIPS 2	320,0	2,00%	6,4





## 'Docking to the future'

- European Space Program
- National program
- Netherlands Space Action Plan