

 1st bilateral DLR-CSA WORKSHOP on
On-Orbit Servicing of Space Infrastructure Elements
via Automation & Robotics Technologies

25-26 November 2002
DLR, Cologne Area, Germany

Welcome!



Workshop Introduction

JOERG KREISEL
International Consultant

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Overview

- Organizational Remarks
- Workshop Background & Objective
- The Program
 - What, Why, Where & When?
 - Breakout Groups
- Breakout Group Approach
- Output

What's Up?

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International Consultant

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Background & Objective

- Space A&R 4 Decades: D, CDN, J, USA, R, I ...
- Renaissance of "OOS Discussion": Potential!
- OOS Mostly Driven by the "Space Tekkies"
- Who Are Stakeholders & Beneficiaries?
- What Makes the OOS Market Tick?
- Benefits & Challenges?
- Public vs. Private Goods
- No Vision! Strategies?
- No Overall Structured Approach
- **DEFINING A WAY FORWARD!**

**OOS 2002:
Fully Booked!
GOOD!**

Nobody Has a Cloue Yet! - Let's Find Out!

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The Program

Morning

09:00-10:30

10:30-11:00

11:00-12:30

12:30-14:00

Afternoon

14:00-15:30

15:30-16:00

16:00-17:30

17:30- 19:00

Evening

19:00-20:00

20:00-??:??

Plenary (*Opening Day 1 @ 8:30*)

Coffee Break

Plenary

Lunch

Breakout Groups

Coffee Break

Breakout Groups

Break: SAUNA, POOL, NAP?

Progress Meeting

Dinner & Bar

How 2 Escape?

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What, Why, Where & When?

- Plenary
 - **Setting the Scene:** DLR, CSA & BG Captains
 - **Who Feels, Thinks, Does, Wants or Dreams What?:** OOS Stakeholders
- **Breakout Groups**
 - OOS Focus from 4 Perspectives
- Coffee Breaks, Lunch, Dinner, ...
 - Networking
 - OOS Talking
 - **Community Approach**
- Registration, News & Help Desk

Plenty of Stuff & 50+ Brains from 10 Countries

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Breakout Groups

- BG 1: The “Whigs”
 - **Big Picture ...**
 - Captain: Joerg Kreisel
- BG 2: The “Suits”
 - **Stakeholders & Market**
 - Captain: Andy Shaw
- BG 3: The “Boffins”
 - **Servicer & Target**
 - Captain: Alex Ellery
- BG 4: The “Navvies”
 - **Mission Architecture & Logistics**
 - Captain: Marshall Kaplan



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4 Teams, 1 Game!

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Breakout Group Approach

- BG Session 1: “Validation” **WHAT?**
 - Why No OOS yet?
 - Status & Vision!
- BG Session 2: “Justification” **WHY?**
 - Routes & Reasoning
- BG Session 3: “Trade-Offs” **HOW?**
 - Measures & Options
 - Pros & Cons
- BG Session 4: “Streamlining” **WHO & WHEN?**
 - Actions Items & Timeline
 - **DEFINING A “WAY” FORWARD 4 ALL STAKEHOLDERS!**

50+ Brains ⇒ 1 “WAY”!?

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Output

- Breakout Group Reporting
 - Rapporteurs & Minutes per Session
 - Interfacing with other BGs after each Session
- Progress Meetings
 - Individual Breakout Group Reports
 - Joint Discussion
 - Integration of Results
- *Post Workshop Follow-Up with Participants*
- **Workshop Synthesis Report**
- Website 2003+ →

Evaluation Form
Questionnaire
SpaceTech 2003

Something Useful!



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