HTSC Consortium day
18-nov-16

Workshop:
Scientific Instrumentation & Metrology
Agenda (morning workshop)

10:45 Introduction, Purpose and WoW
10:50 Marijn van Veghel – VSL
11:05 Hamed Sadeghian – TNO
11:20 Hans Priem - VDL ETG
11:35 Discussion
12:15 Workshop wrap up
Agenda (afternoon workshop)

13:15    Introduction, Purpose and WoW
13:20    Marijn van Veghel – VSL
13:35    Hamed Sadeghian – TNO
13:50    Jeroen de Boeij – Thermo Fisher Scientific
14:05    Discussion
14:45    Workshop wrap up
Introduction, Purpose

• Build a strong High Tech research eco-system
• Define (common) roadmaps to drive research
• Explore and forge Research Consortia
• Sow the seeds today, reap the fruits tomorrow
Way of Working today

• Short presentations to inspire
• After each presentation make a note:
  • What part/theme/idea links to your own ambitions
  • What knowledge would you love to have
• Discussion / sharing your notes and ideas
• Converge
Back Up
Resources versus Performance

- Innovate
- Multi-disciplinary
- Systems Engineering

Performance vs. Resources
**Environment & Interactions**
- Vision, context and robots
- Joint thermo-mechanic position control of a wafer stage
- Inline harvesting and packaging of poultry products

**Advanced Materials & Processes**
- Optical Meta materials
- Piezo-MEMS actuation for active wafer table control
- Polymerisation of ceramics-resin mixtures

**Hardware Architecture & Design:**
- High-dynamic actuators control and topology
- Next generation sensing in Semicon equipment
- Advanced 3D printing

**Software Architecture & Metrology**
- Machine Virtualization
- Concepts for printing systems
- Domain Specific Languages for large scale systems

**Model Based Design & Control**
- Learning Control for printing systems
- Distributed wafer table curvature control
- Data driven feedforward
- Drone based multi-agent systems