

WIFI



Network: Ideon Konferens

PW: K6nf!deon

# ESS

## Engineering Information Days

### 2 & 3 June, 2015

Rob Connatser  
Head, Scientific Projects Division

[www.europeanspallationsource.se](http://www.europeanspallationsource.se)

2 June 2015

**WELCOME!**

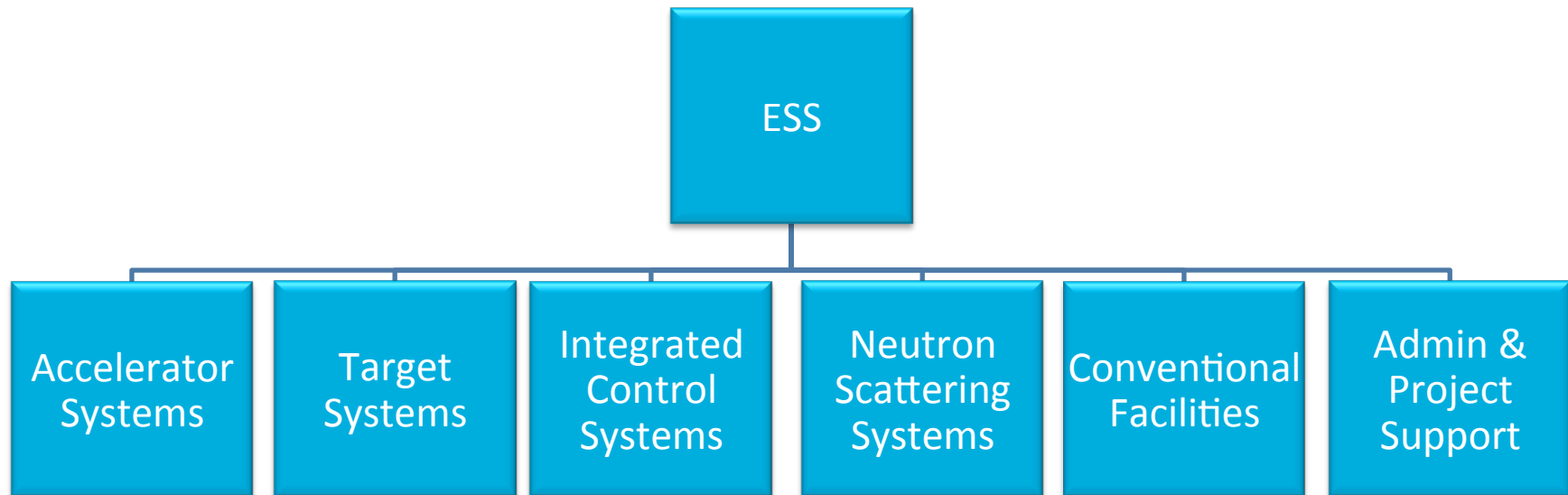
- Purpose
- ESS Structure
- NSS Structure
- Introductory Remarks

# Purpose of the Engineering Days

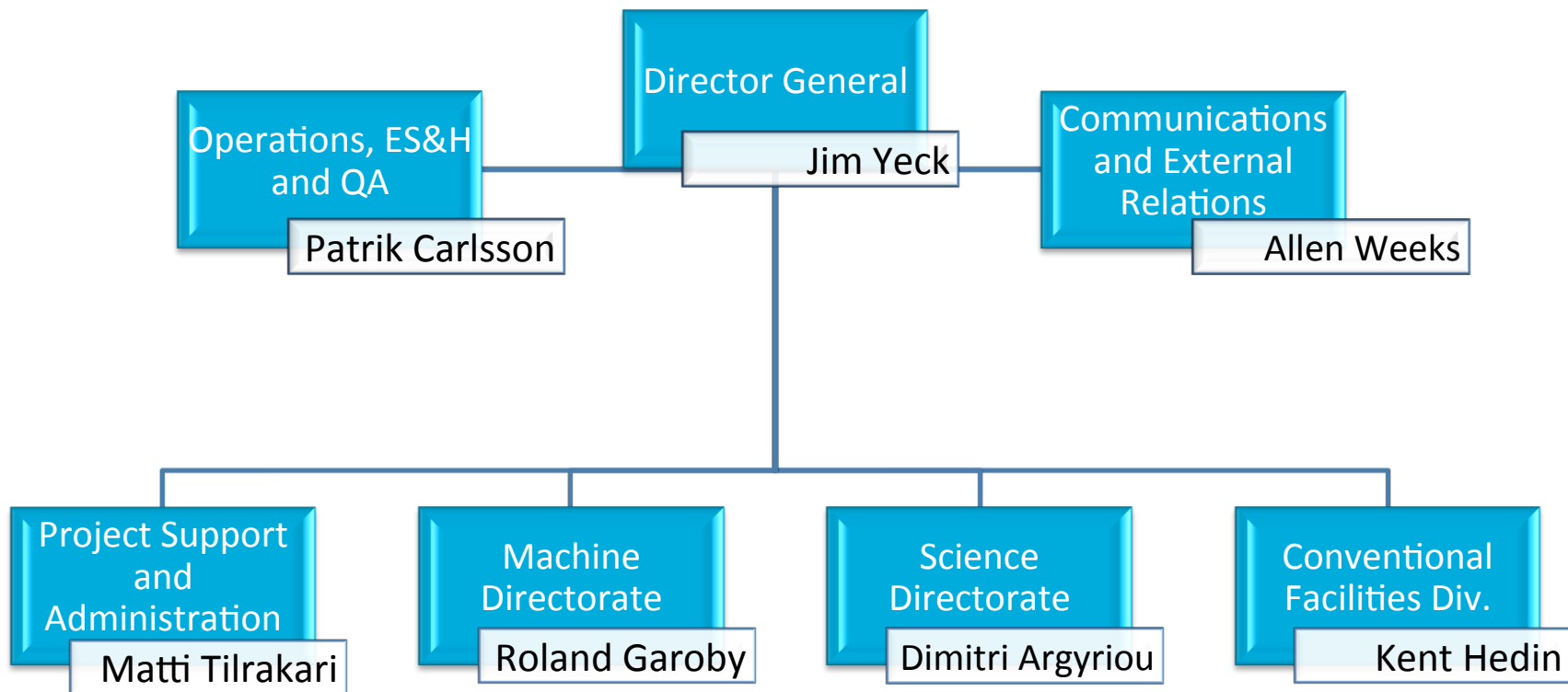


- To provide an overview of the technical and organizational information to the engineering partners of NSS.
- To introduce contact persons within the ESS central organization.
- To provide an opportunity for all of the engineering teams to come together.

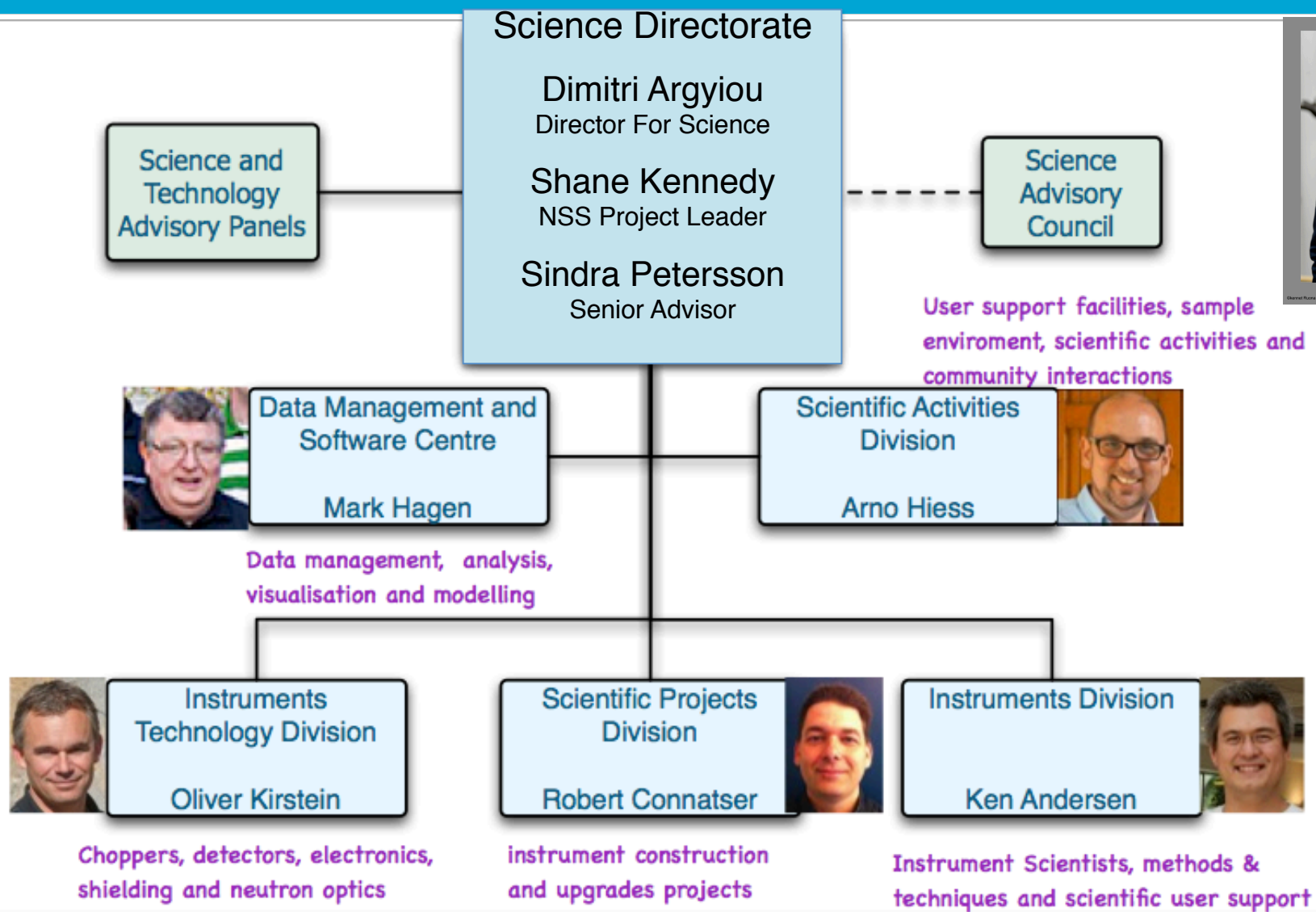
# ESS Project Structure



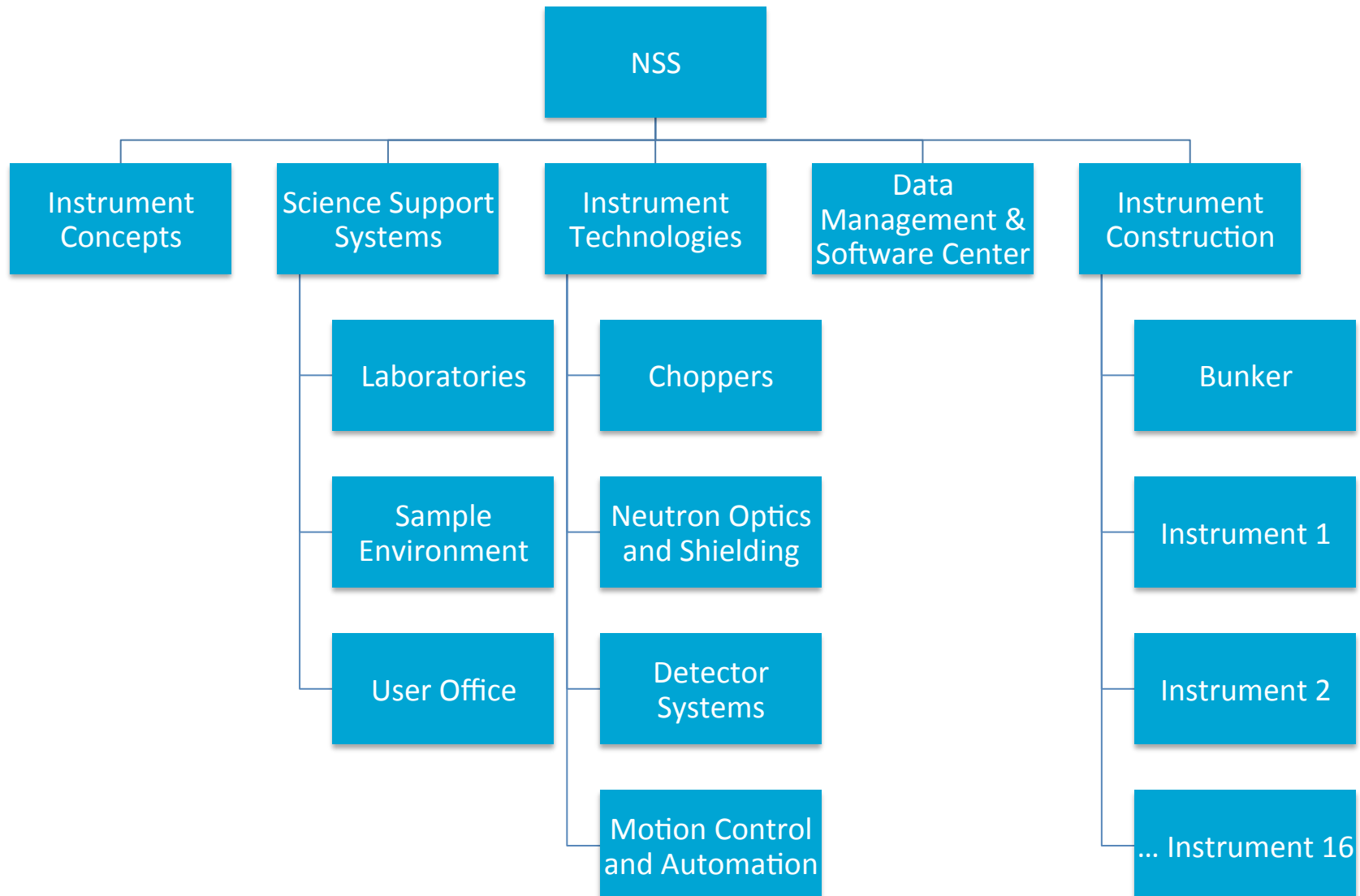
# ESS Management Structure



# Science Directorate



# Neutron Scattering Systems



“Hello, we are from Science, and we are special.”

1 Accelerator

1 Target System

16 (22) (35) Instruments

# Technical Challenges



- 5 MW with 2 GeV proton energy
  - Radiological and Background Shielding
- Long pulse spallation source
- Aggressive angular separation for instruments

# Organizational Challenges



- Green Field Site
- Aggressive schedule for the facility
- In-kind World
- Distributed Design of Instruments
- New CAD tool
- Swedish Regulations and regulatory body

# Priorities for ESS/NSS



- Reduce the costs of designing and building the instruments. (limited project budget)
- Ensure maintainability and operability of the instruments. (control operational costs)
- Meet Reliability and Availability Goals (undefined for instruments as of yet, but will be aggressive)
  - At least 90% of the users should receive a neutron beam that will allow them to execute the full scope of their experiments.

# FACTS



Not every detail that needs to be known or determined has been figured out.

ESS Central Organization has been and will continue to be working hard to figure them out.

We welcome all of you as members of the team and you are integral parts of ESS.