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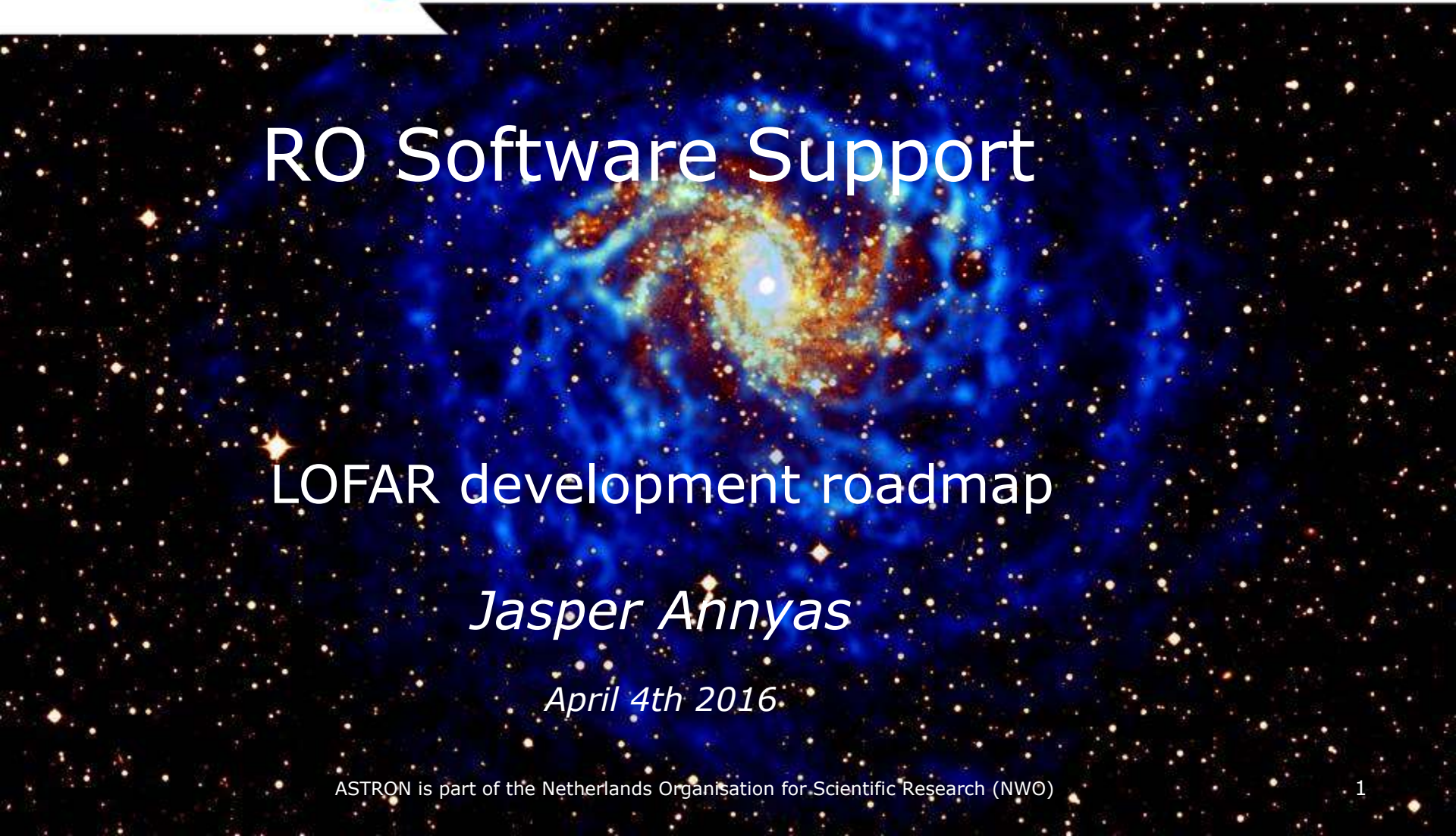
Netherlands Institute for Radio Astronomy



RO Software Support

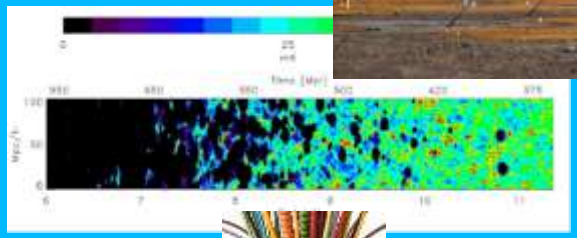
LOFAR development roadmap

Jasper Annyas

April 4th 2016

Current Developments

- Commisioning Poznan LTA
- Commisioning 3 Polish stations
- Commisioning LBA sparse mode
- Testing EOR ingest
- Testing staging services API
- **Delivering CEP4**
- Analyse LCU replacements



CEP4

- Hardware is being handed over to Astron March/April
- SwS is installing and testing our software
- First partial results: meets CEP2 performance or better
- Tuning needed the coming months to go to higher performance
- Expected handover to ScS: begin May

Planning 2016

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1. **CEP4: test and commission**
2. Northstar fixes
3. LCU replacement
4. **Finish Resource assignment CEP4 & phase out CEP2**
5. (Westerbork: Apertif)
6. Survey Tier I ingest.: SIP
7. Generic pipeline pilot
8. Responsive telescope: Triggered reaction
9. Responsive Telescope: TBB
10. General user ingest
11. Idle station support (AARTFAAC/TBB)

Outlook 2017 and beyond

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- **Pipeline Framework: will be part of the roadmap to transform LOFAR to a production system**
- (Westerbork system maintenance)
- NenuFAR: depends on status in FR
- Improved maintenance support (ao Navigator)
- **Improve or replace Astrowise**
- Pipeline processing at the LTA

Roadmap towards production system
First draft

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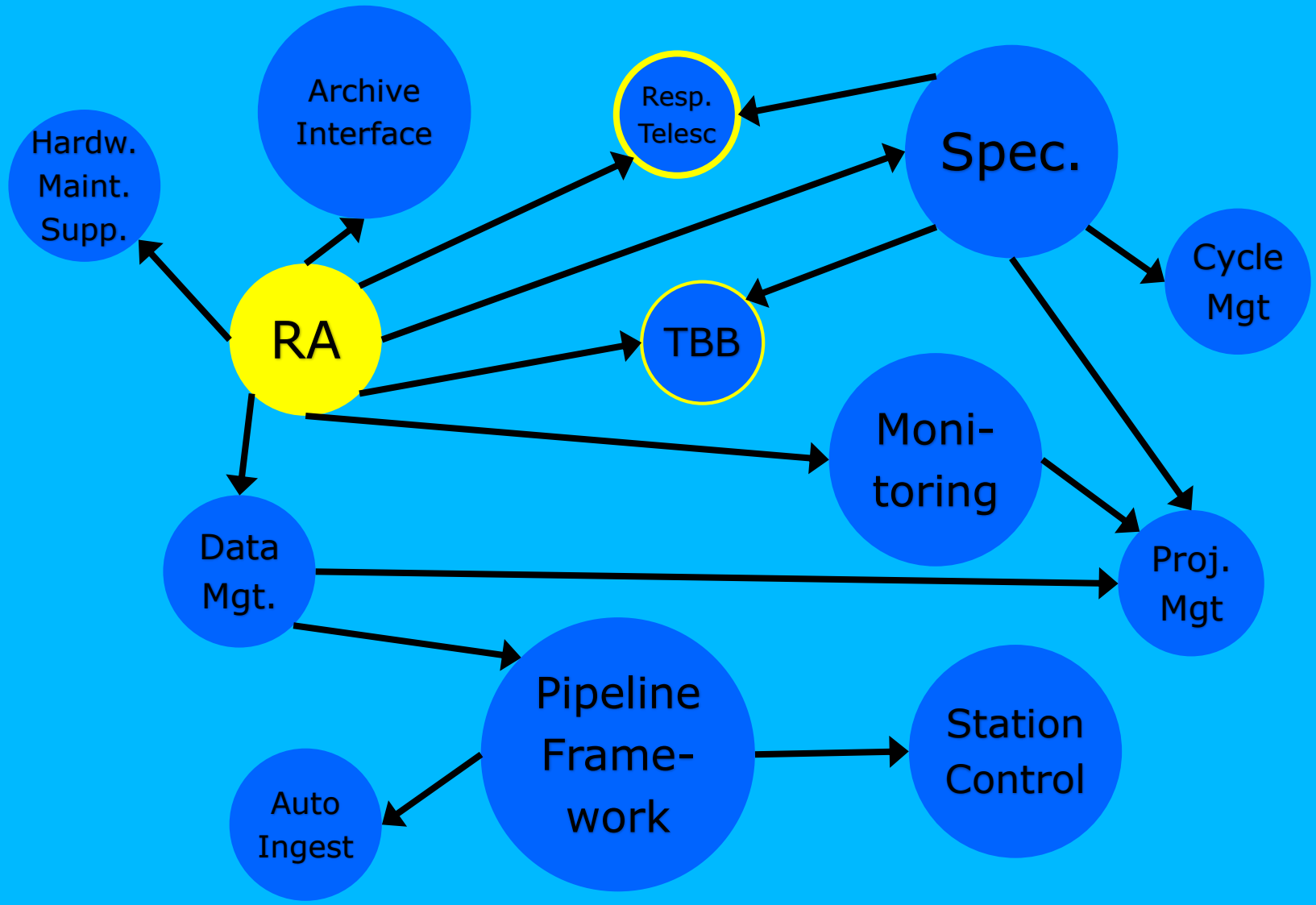
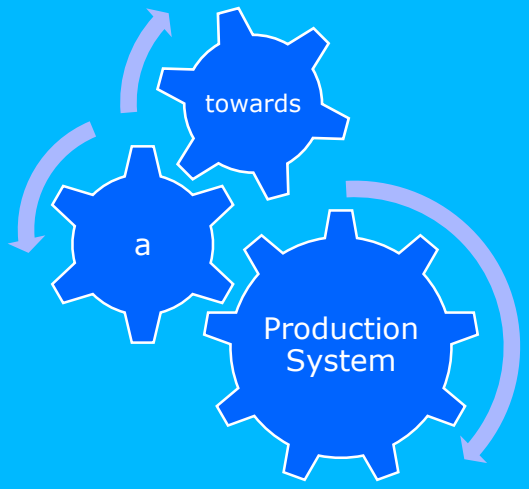


Roadmap to production system
Remarks

- Rough map, needs further specification
- Gives insight in choices to make
- Started with the Resource Assigner
- Divided in S, M and L size
- Totals to about 3-4 years of work with current team
- Fit in new add-ons in an effective way