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# Future developments of VieVS

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# Modules under development

-  VIE\_SCHED
-  Space craft tracking

# Data format

- ❑ New data format specified by IVS WG 4
- ❑ netCDF format
- ❑ Will be implemented in VieVS as soon as it is specified and data start to become available in this format.








# Cover earlier steps in the analysis chain

- ▣ Group delay ambiguity resolution
- ▣ Ionospheric correction
- ▣ Phase delay ambiguity resolution for VLBI2010



# Kalman filter

- An alternative to least-squares adjustment
- Advantages:
  - Some processes (e.g. troposphere, clocks) better described by e.g. random walk processes than as piece-wise linear offsets
  - Good for real-time operation
  - Smaller matrices, requires less memory

# Other improvements

-  Face-lifting, e.g. one interface
-  Update and improve the documentation
-  Elevation and station dependent weighting of observations.
-  Implement more model etc., e.g. more atmospheric loading series
-  More options for output of the results
-  Station files
-  Handling of twin telescopes etc. (VLBI2010)

# Some thing that would be nice

-  Automatic detection of clock breaks and other problems
-  Source structure corrections

# Goal of the VLBI group at IGG

- ❑ Become an operational IVS analysis centre:
- ❑ Regularly submit results from our VieVS analysis for the IVS combination
- ❑ Some issues still needs to be resolved



Any other suggestion or wishes?