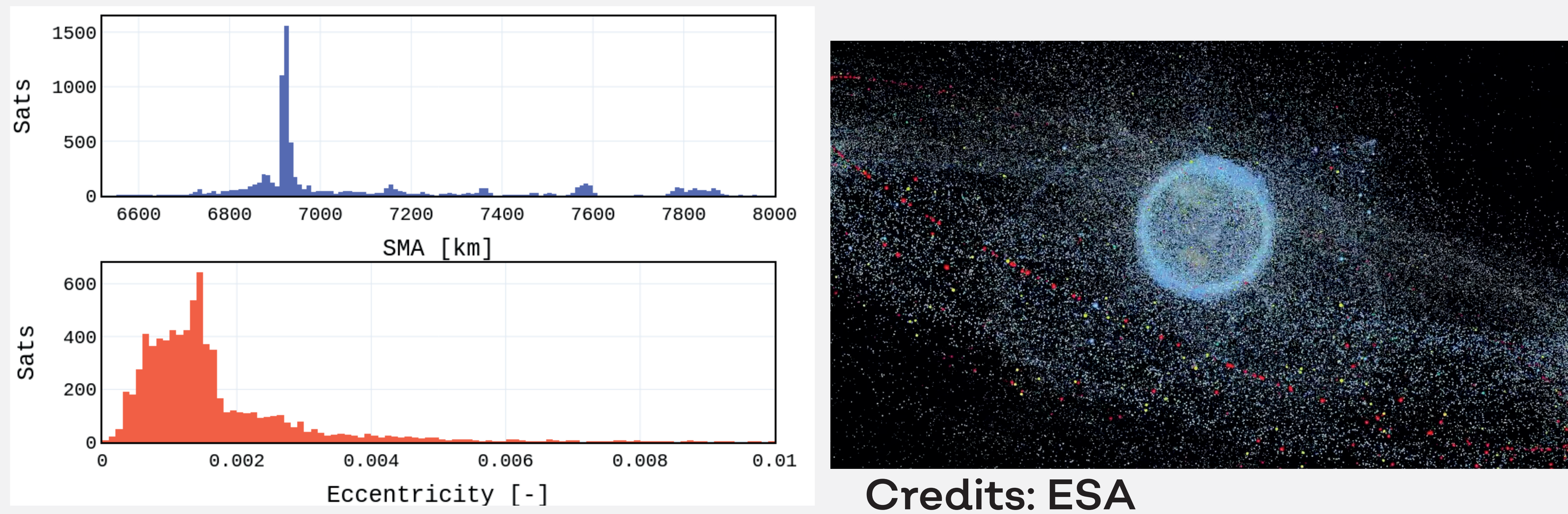


“ A Ptolemaic approach for improving the conjunction analysis pipeline ”

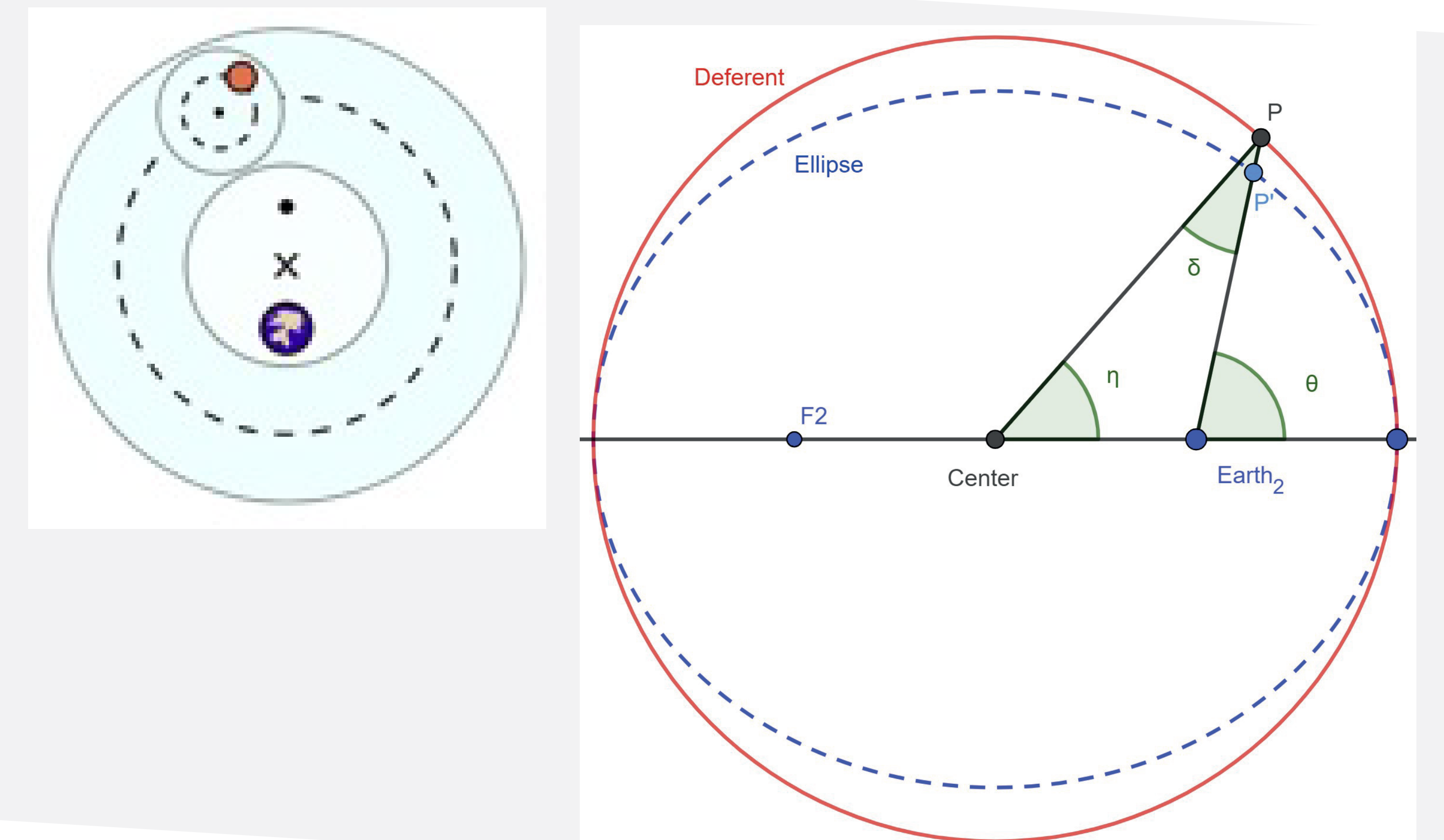
Pietro De Marchi
Space Systems Engineer

1. The current situation

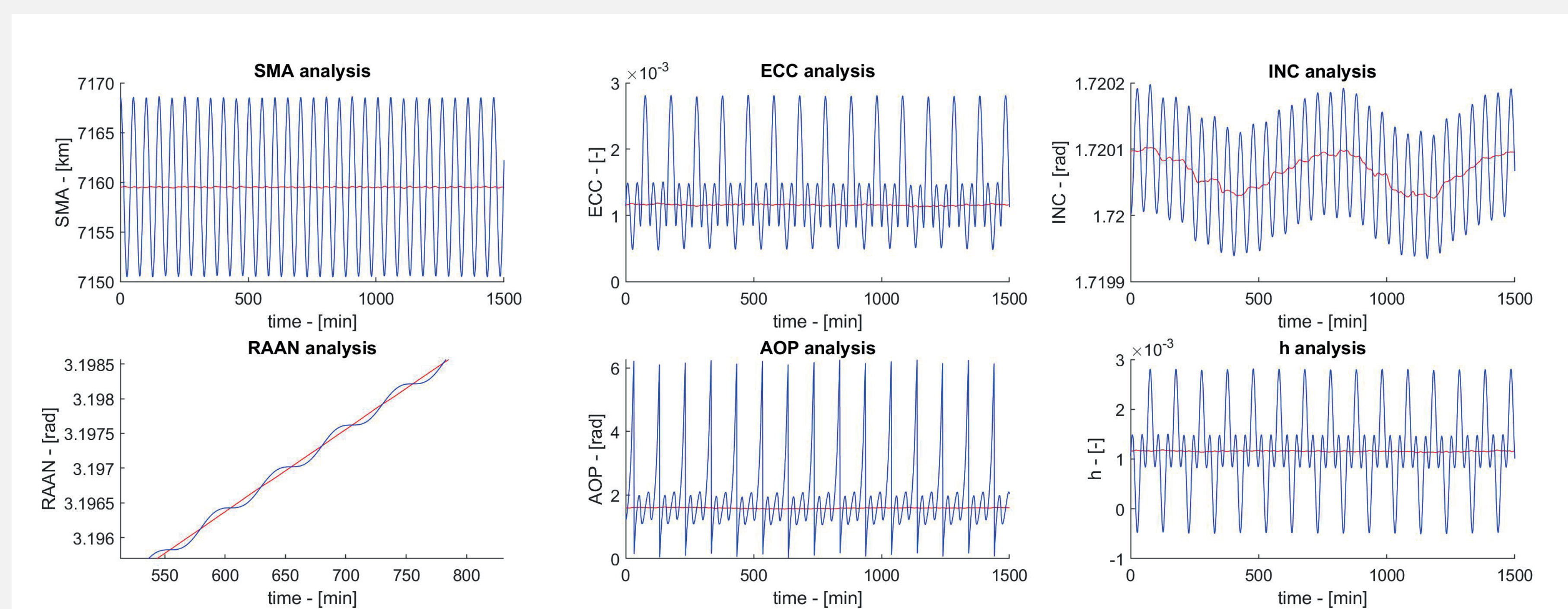


INFINITE WAYS TO AUTONOMY

2. The deferent model

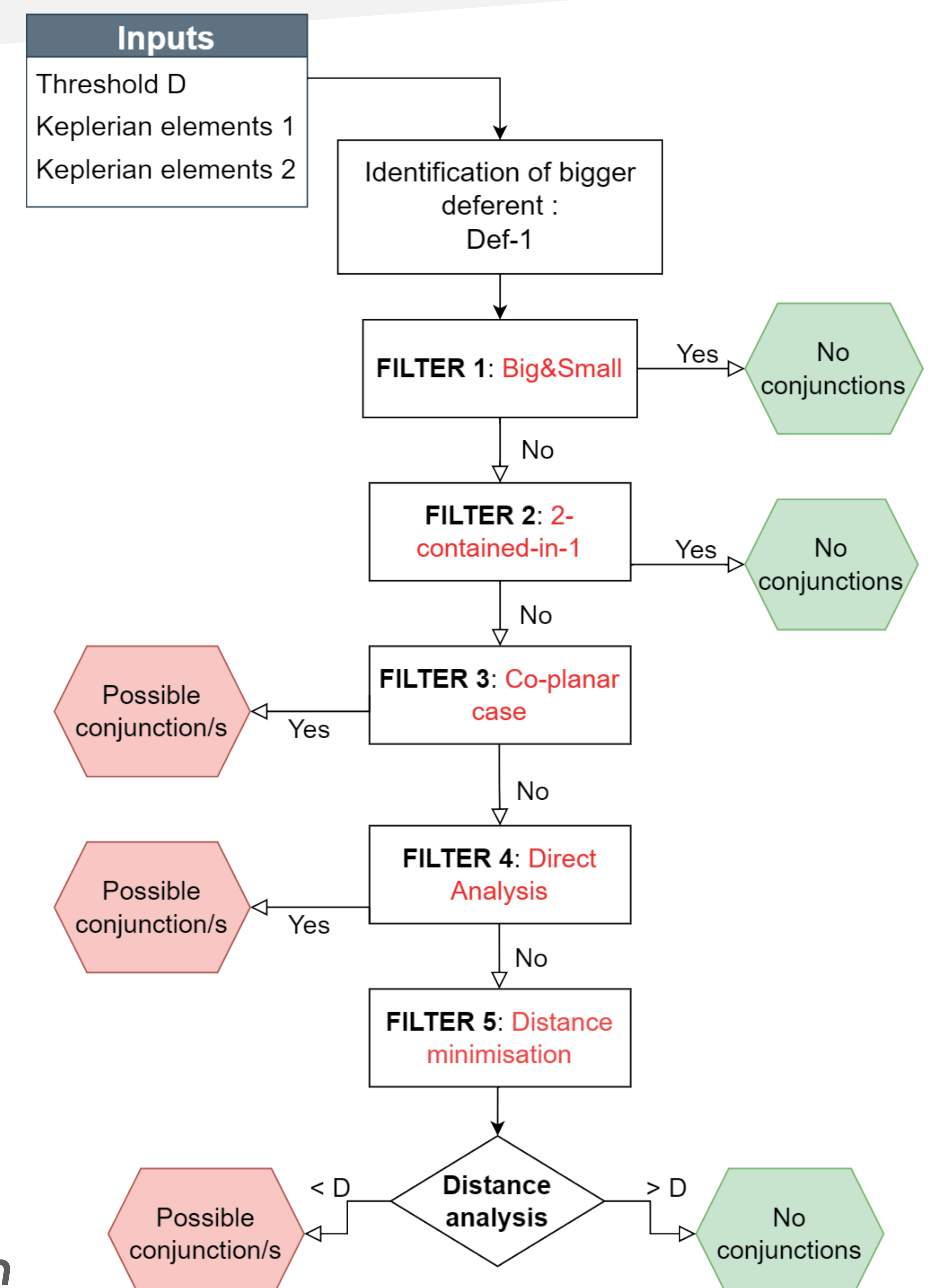
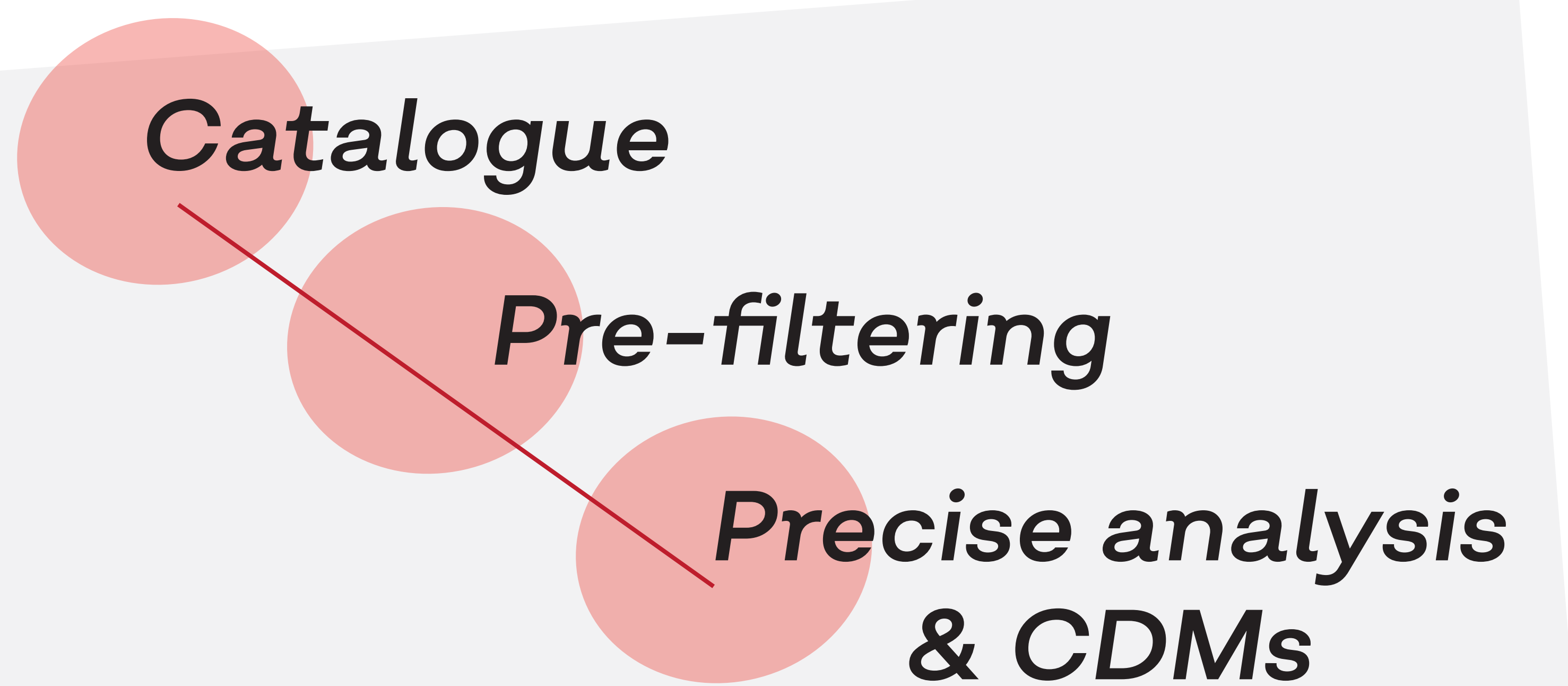


3. The method



Mean elements for the deferent model

4. The filter



5. Main results & takeaway points

Tested on LEO catalogue...

- + computational efficiency
2x wrt benchmark
- + quickly discard many couples
23% more than benchmark
- + preserve the propagation history

Soon...

- + precise MOID computation
- + integration in AI-based pipeline

Contact us
pietro@aikospace.com
www.aikospace.com or info@aikospace.com

