



NEO-related perspectives of the ESA Space Situational Awareness (SSA) program

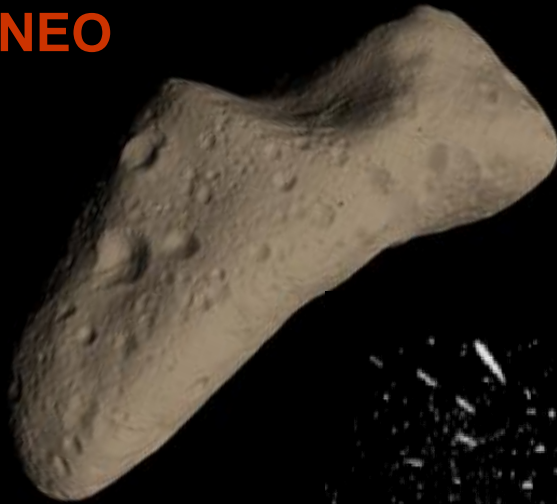
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SSA scope

The Space Situational Awareness program aims to gain Europe a comprehensive knowledge of the population of space objects, of existing threats/risks, and of the space environment.

NEO



Space Debris



Meteoroids



SSA is an optional program

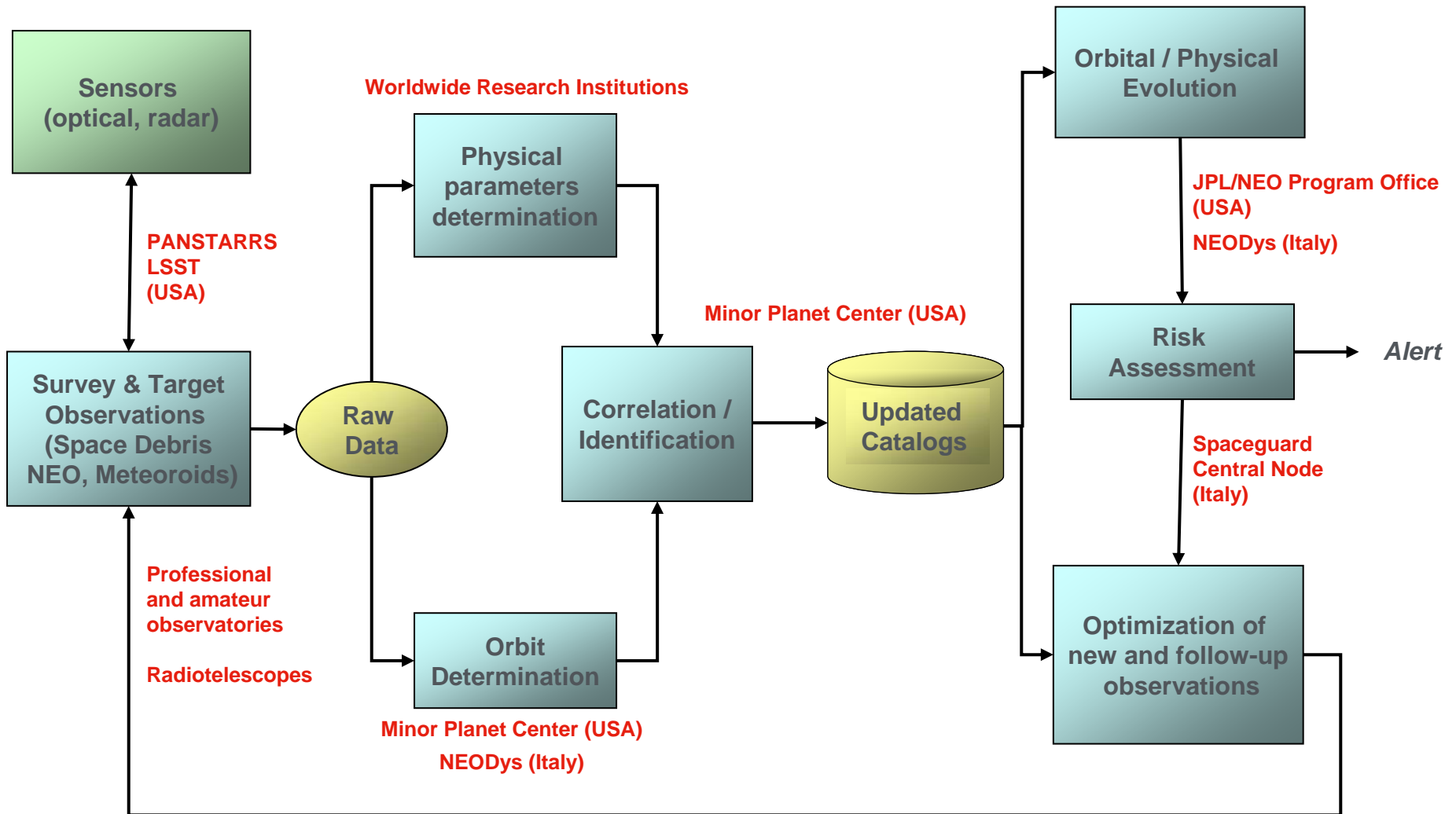
- **assessment for ESA ministerial conference: 2008**
- **preparatory program: 2009-2011 @ 50 MEuro**
- **implementation and operation: > 2012**
- **Program structure**
 - **Core element**
 - **Space weather & NEO**
 - **Radar element**
 - **Data Centers**

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Italy has subscribed Core element & NEO

SSA system



SSA is NOT a scientific program

- Users are security, defense, insurances etc

Yet SSA needs NEO scientific knowledge and expertise

- NEODys 10 year operations

Marco Polo is NOT a mitigation mission

- Science driven

Yet Marco Polo can contribute to SSA

- NEO space elements

SSA conclusions

perhaps add a “could” requirement ?

