



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

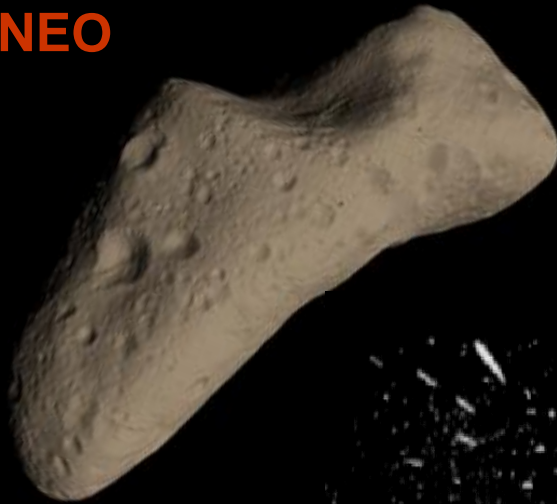
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# SSA scope

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

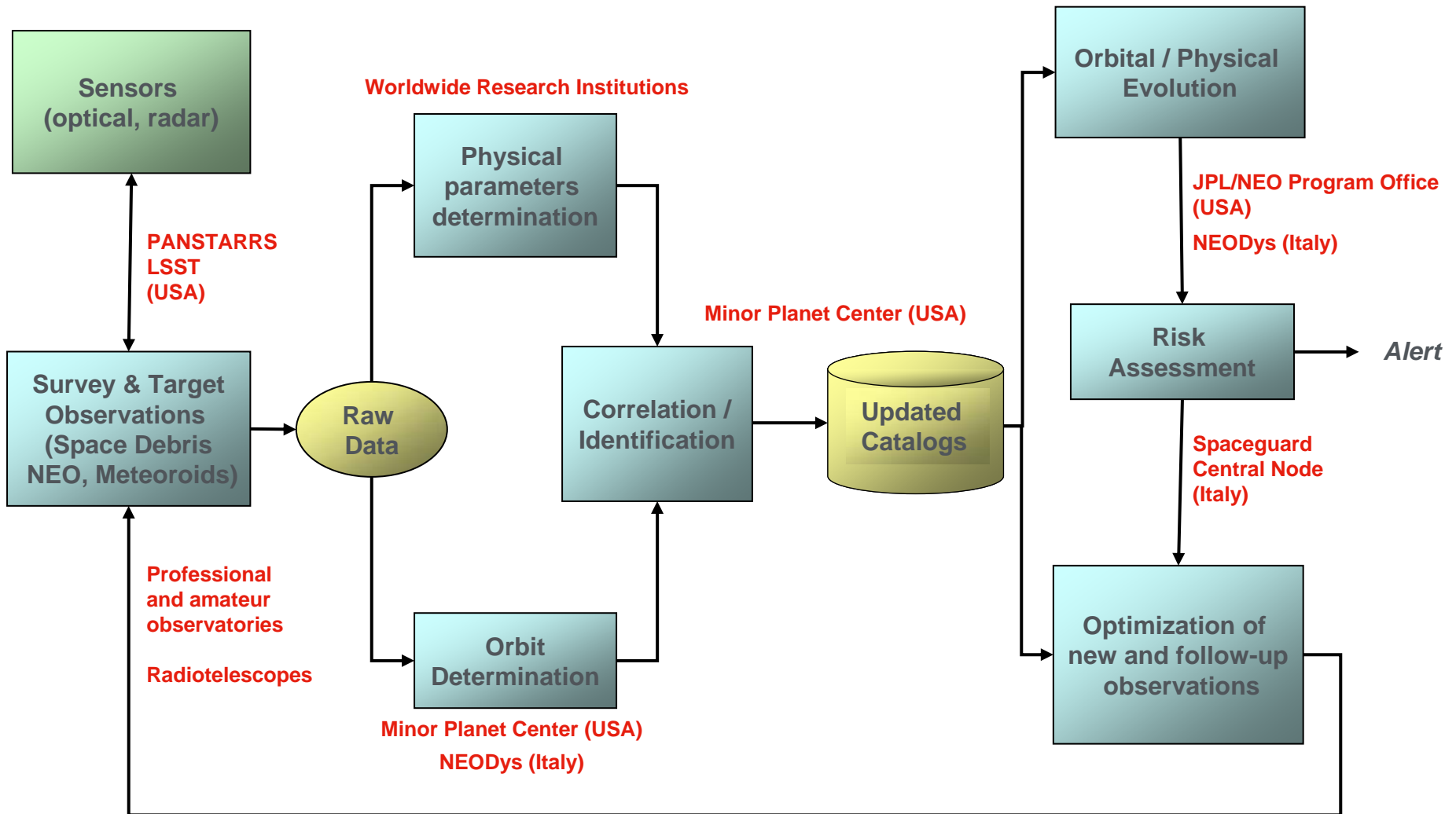
- **assessment for ESA ministerial conference: 2008**
- **preparatory program: 2009-2011 @ 50 MEuro**
- **implementation and operation: > 2012**
- **Program structure**
  - **Core element**
  - **Space weather & NEO**
  - **Radar element**
  - **Data Centers**

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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 ?*

