

# SSA-NEO strategy for Period 3

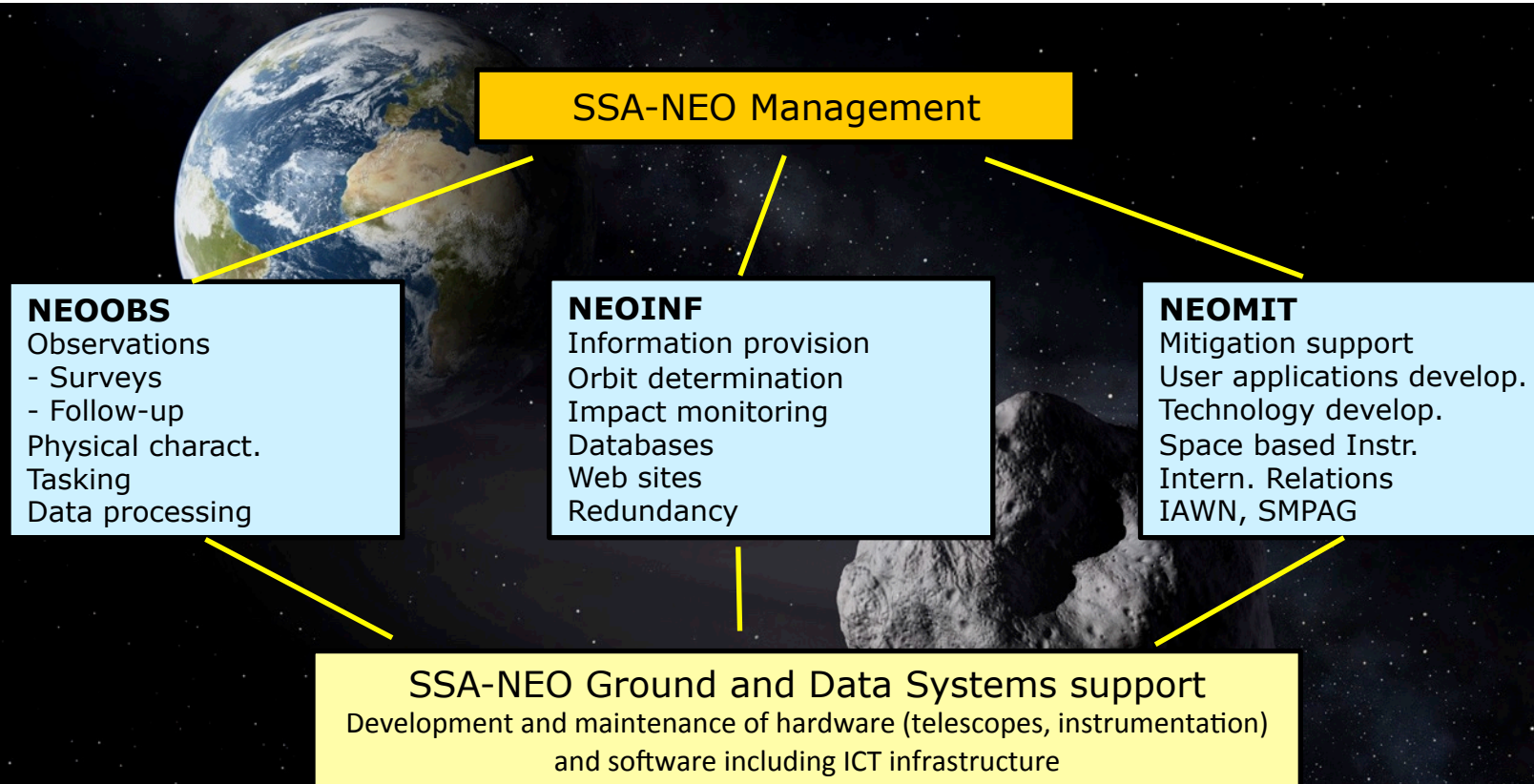
Detlef Koschny

SSA-NEO segment manager

## SSA-NEO strategy for Period 3

**To establish and support a European capability for the protection of its critical space and ground infrastructure from threats by potential asteroid impacts.**

# The four 'pillars' of SSA-NEO



**Test-Bed Telescopes operational, one of them in La Silla**

**Have a functioning Fly-Eye Telescope #01**

**Have a fireball camera ready to be flown as a hosted payload**

**Have a complete Orbit Determination and Impact Monitoring system at ESRIN (= move NEODyS)**

**Technical web portal with user applications that people actually use**

**Have a backup system and image data centre in place (location?)**

**Have interfaces for information flow in place with member countries and on international level (working hours only)**

# Where do we go – TBT #02



# Where do we go – Fly-Eye #01



Slide 6

# Where do we go – Information provision



## NEODyS-2

Near Earth Objects - Dynamic Site

Sponsored by

Go to NEA ▶

Home Objects Observatories Search Risk page NEA elements Related sites Info & Credits

### J04

OBSERVATIONS AND RESIDUALS [Help]

[1801-2000] [2001-2200] [2201-2400] [2401-2600] [2601-2800] [2801-3000] [3001-3200] [3201-3400]  
[3401-3490]

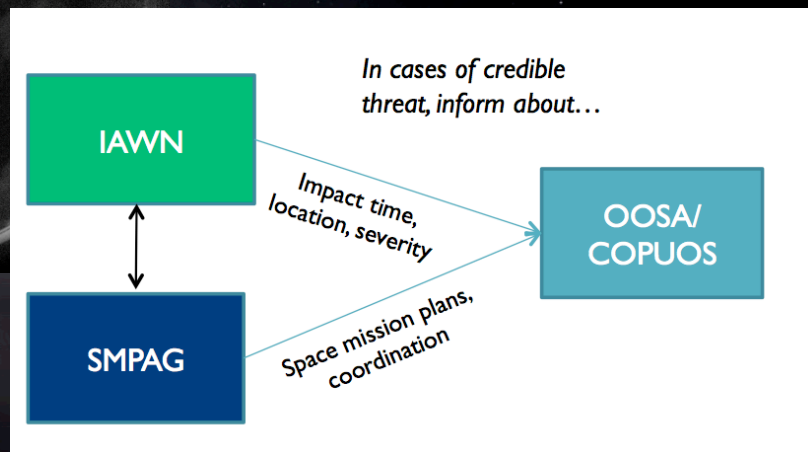
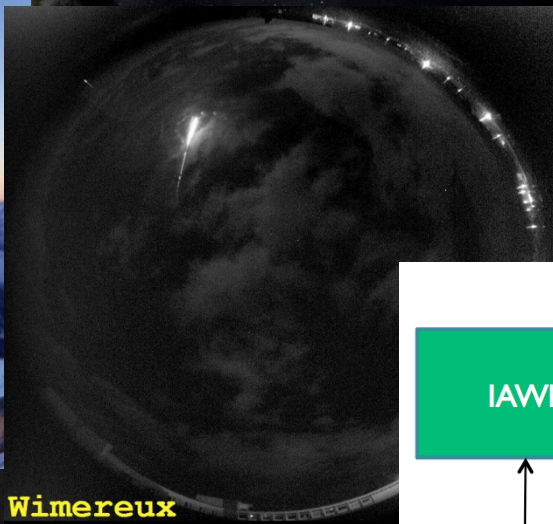
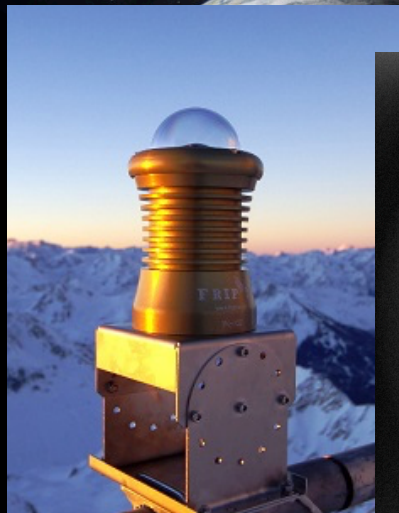
| Designation | T | Tech | N | Date             |           | Right Ascension |           |       |   |       | Declination |                 |           |       |   | Apparent Magnitude |          |         | Star Catalog |       |          |
|-------------|---|------|---|------------------|-----------|-----------------|-----------|-------|---|-------|-------------|-----------------|-----------|-------|---|--------------------|----------|---------|--------------|-------|----------|
|             |   |      |   | yr-mo-day        | precision | hr:min:sec      | precision | rms   | F | bias  | residual    | deg min sec     | precision | rms   | F | bias               | residual | mag/col |              | rms   | residual |
| 2016WN1     | O | C    | K | 2016-11-26.98198 | 1.000E-06 | 03:15:37.685    | 1.500E-02 | 0.283 | F | 0.000 | -0.141      | +13° 54' 39.31" | 1.000E-02 | 0.283 | F | 0.000              | -0.147   | 21.1 G  | 0.70         | -0.54 | U        |
| 2016WN1     | O | C    | K | 2016-11-26.99155 | 1.000E-06 | 03:15:39.858    | 1.500E-02 | 0.283 | F | 0.000 | 0.542       | +13° 54' 43.53" | 1.000E-02 | 0.283 | F | 0.000              | 0.242    | 21.7 G  | 0.70         | 0.06  | U        |
| 2016WJ1     | O | C    |   | 2016-11-27.01097 | 1.000E-06 | 04:08:49.437    | 1.500E-02 | 0.490 | F | 0.000 | -0.008      | +14° 51' 16.23" | 1.000E-02 | 0.490 | F | 0.000              | -0.065   | 17.7 G  | 0.70         | -0.21 | U        |
| 2016WJ1     | O | C    |   | 2016-11-27.01173 | 1.000E-06 | 04:08:49.252    | 1.500E-02 | 0.490 | F | 0.000 | 0.064       | +14° 51' 15.84" | 1.000E-02 | 0.490 | F | 0.000              | 0.017    | 17.8 G  | 0.70         | -0.11 | U        |
| 2016WJ1     | O | C    |   | 2016-11-27.01248 | 1.000E-06 | 04:08:49.061    | 1.500E-02 | 0.490 | F | 0.000 | 0.045       | +14° 51' 15.32" | 1.000E-02 | 0.490 | F | 0.000              | -0.030   | 17.8 G  | 0.70         | -0.11 | U        |
| 2016WJ1     | O | C    |   | 2016-11-27.01324 | 1.000E-06 | 04:08:48.867    | 1.500E-02 | 0.490 | F | 0.000 | -0.013      | +14° 51' 14.84" | 1.000E-02 | 0.490 | F | 0.000              | -0.037   | 17.8 G  | 0.70         | -0.11 | U        |
| 2016WJ1     | O | C    |   | 2016-11-27.01399 | 1.000E-06 | 04:08:48.694    | 1.500E-02 | 0.490 | F | 0.000 | 0.234       | +14° 51' 14.47" | 1.000E-02 | 0.490 | F | 0.000              | 0.067    | 17.8 G  | 0.70         | -0.11 | U        |
| 2016WJ1     | O | C    |   | 2016-11-27.01474 | 1.000E-06 | 04:08:48.494    | 1.500E-02 | 0.490 | F | 0.000 | 0.093       | +14° 51' 13.95" | 1.000E-02 | 0.490 | F | 0.000              | 0.021    | 17.7 G  | 0.70         | -0.21 | U        |
| 2016WQ1     | O | C    | K | 2016-11-27.02080 | 1.000E-06 | 06:05:56.497    | 1.500E-02 | 0.346 | F | 0.000 | -0.206      | +21° 45' 59.89" | 1.000E-02 | 0.346 | F | 0.000              | 0.007    | 21.1 R  | 0.70         | -0.42 | U        |

Parallax info

Obs & residuals

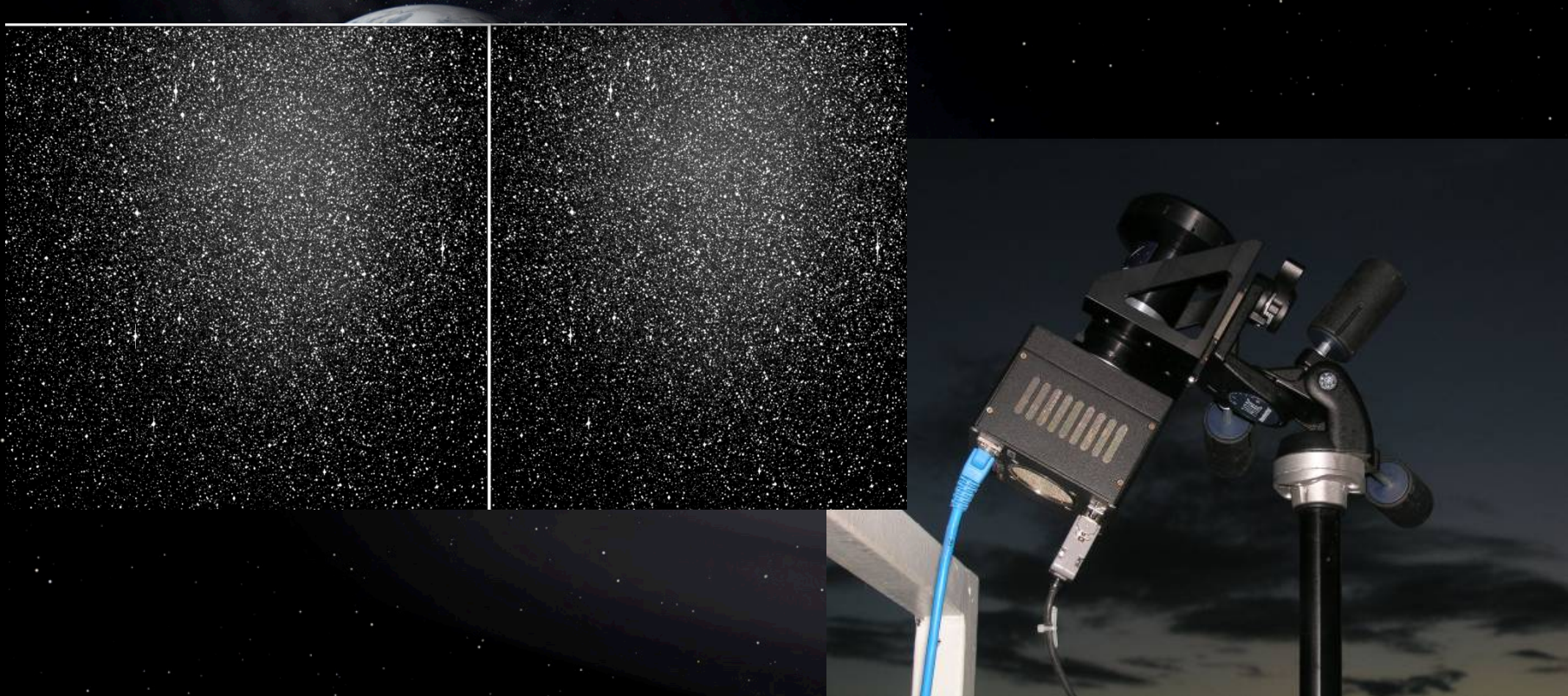


# Where do we go – Mitigation support





# Where do we go – Space segment



# Where do we go – Fly-Eye #02?



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