











swwt m8 10 April 2002, CNES



Potential (Priority?) Item • SPE warning system for launchers • Induced current warning systems for pipelines, railways and power grids Magnetic storm warning for prospecting • Orbital drag prediction for LEO s/c and objects . Scientific instruments interference • Aircrew and passenger radiation monitoring and exposure warning

- . Manned space mission radiation monitoring and prediction
- Spacecraft anomaly monitoring and prediction
- Optical aurora prediction for general public & tourism
- Real-time ionospheric TEC for positioning systems ٠
- Ionospheric prediction for ground & space based communications, radars and positioning
- Solar, geomagnetic, ionospheric predictions for support of scientific investigation planning

esa

esa

esa estec

swwt m8 10 April 2002, CNES

Proposed Schedule	
 Task force: MB SWWT Information Letter AO Notification of result ITT Close Tender Evaluation Negotiation Phase KO 	13-03-2002 8 /4 10/4 15/4 10/5-30/6 14/7 30/7 30/9 30/9-15/10 15/10-31/10 7/11
Cesa estec	swwt m8 10 April 2002, CNES

Proposed COST Breakdown

- S/W Infrastructure dev and support and Network Management and Assessment Study: 300-400 kEuro.
- Service items development: up to 15 up to 100 kEuro each (in co-funding).
- Economic assessment 100-200 kEuro.

swwt m8 10 April 2002, CNES

Remaining Issues

- Real-time data
- Grouping/competition of pairs;
- Importance of R&D (tools, models, data assim.) in service projects; Small number vs large number;
- Co-ordination with other activities:
- Acceptance of funding;
- ESA participation as service provider;
- Manpower for many activities supervision;
- Review of proposal and selection procedure. Confidentiality.
- Independent economic assessment. Schedule incompatibilities with co-funding
- Phase A?

esa

Co-funding (internal? industry? International?,...).

swwt m8 10 April 2002, CNES