



INDIAN SPACE PROGRAMME

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Dy Director ISAC



ISRO-TU Delft Cooperation so far...

- Sub systems for nanosatellite
 - Satellite Positioning System,
 - Some work on On Board Computer (OBC)
- Ground Station Support for ISRO nanosatellites
- Telemetry and Telecommand
- Decoding data from raw signals
 - TU Delft team **first** confirmed the health of INS-1 A/B

Possible areas of interest ISRO Sat Centre & TU Delft

- Innovative payloads for nanosatellite – typically 1 to 5kg
- Sub systems for nanosatellite – Micro Propulsion, **SPS**, **OBC**, etc
- Payloads and concepts for **array of nanosats for earth observations** – for near real time coverage
- **Radio - Interferometry**
- Inter-satellite communication – LoRa, 60GHz beam forming
- Intra-satellite wireless communication & Constructive Interference
- Origami based solar panel or antenna
- Robots to possibly fly in interplanetary/moon mission
- **Ground Station Support** for ISRO nanosatellites
- Possible Research, Innovation & Student Exchange Program with Indian Institute of Space Technology (IIST), India & TU Delft

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Partnerships & collaborations
to enable “Working Together”

Let us move forward towards this...

Thank You

