

Future EO block 4: Opportunities for Slovakia

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Future EO block 4 2024 work plan remaining tenders



Industrial Competitiveness

- EO4Green Transition – pathfinder set of activities to investigate and test embedding of EO based information into decision support practices of priority industry sectors requiring significant restructuring to address climate adaptation and green transition requirements – 3 x 500k
- EO4Veracity – elaboration of end to end information delivery chain components, associated threats and integrity verification measures – 1 x 400k

Digital Innovation

- Green Transition Information Factories – 2-3 contracts addressing priority thematic domains. ITT issued now or early Q1 2025

- Addressing Best Practices for Exploitation of EO data in priority sectors – carbon sequestration auditing and wave/current energy generation support (2 x 600k). Working with critical mass of key stakeholders in each sector to address blockages constraining wider use of EO derived information
- Advanced processing methods (2 X 300k): multi-sensor data fusion methods (super-resolution enhancement, low quality imagery enhancement, multi-frequency SAR processing)
- Prototype regional multi-dataset applications and services (2 contracts each addressing one region – Alps, Danube, Baltic, or Atlantic regions) – 2 X 500k

- Biodiversity and Ecosystem Conservation and Restoration – developing and verifying methods to integrate EO derived information within biodiversity indicators and ecosystem status & health characterization
- Vulnerability, adaptation and resiliency – EO based methods for characterization of vulnerability and resilience issues driven by climate change

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Permanently Open Call for Proposals



Statistics so far:

- number of proposals received under Future EO segment 2 (4 batches): 204
- number of proposals received from SK lead bidders: 5 (from 2 bidders)
- number of contracts started with SK lead bidders: 0

Overall success statistics for batches 1 to 3: 35 contracts started from 143 proposals (approximately 1 in 4)

Breakdown of success rates by SMEs & Universities:

	percentage of proposals	percentage of contracts awarded
universities	23.1%	25.7
SMEs	56.6%	45.7%

Main reasons why proposals are not selected:

- lack of clear innovative content
- target performance levels and proposed technical methodology too high level or unclear
- insufficient consideration of technical risks inherent in the proposed development activity

Main recommendation – discuss with us prior to submitting a proposal:

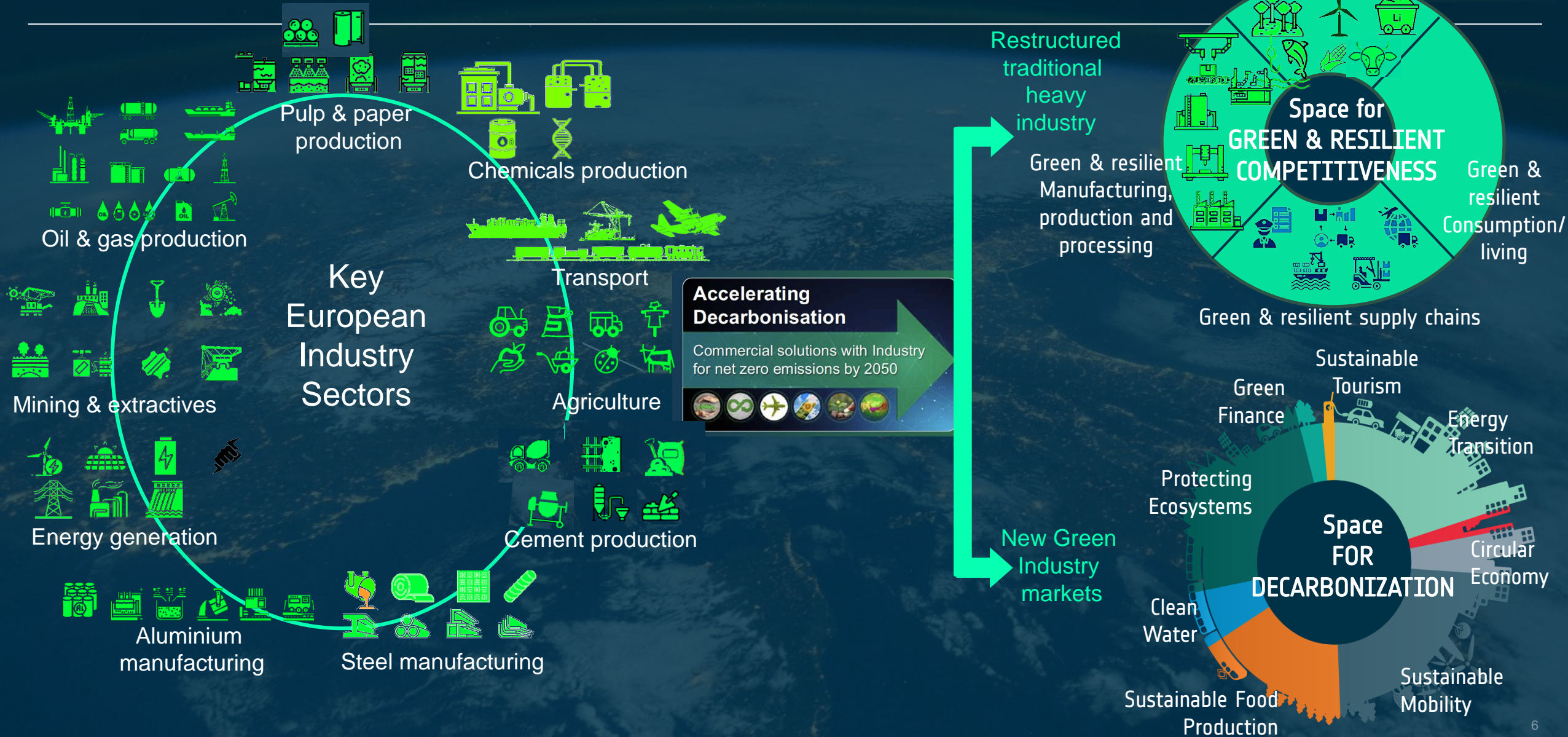
- ensure proposed development is in scope
- clarity on innovative content & what we are looking for as technical descriptions, discussion of problem areas etc....



NOT ESA!!!

- Minimize number of separate programme proposals so downstream activities are included in Future EO (merges Future EO block 4, CCI and GDA) , Digital Twin Earth and InCubed.
- Future EO to be structured as 3 pillars – Pillar 3 is “Earth Action”, ie all downstream activities, including:
 - Continuation of industrial competitiveness, focusing on advanced processing methods (AI, new instruments, new methods, multi-sensor fusion etc) and Green Transition solutions for industry sectors (steel, aluminium, cement, agriculture, pulp & paper, chemicals etc)
 - Resilience (new capabilities for crisis mitigation and response, integrating EO and non-EO solutions for law enforcement support, public health etc)
 - Applications for policy – pre-operational open source applications developments supporting the definition and monitoring of new policies (eg biodiversity, land degradation, etc)
 - Science exploitation addressing priority science challenges and preparing EO elements of Horizon Europe Earth system missions
 - Sentinel User Preparation, primarily strengthening capabilities to integrate Sentinel Expansion class datasets into pre-operational applications and services, developing new processing methodologies and verifying capabilities to extract Earth system parameters
 - Permanently Open Call

What are we considering for Green Transition?



Green Transition: Who are we targeting?

Demand side stakeholders for analytics & decision support:

- **public sector operators** utilizing customized information & analytics products for policy elaboration, monitoring, regulatory enforcement, auditing and assessment
- **trading platforms** providing catalyzing market based mechanisms for offsets (carbon, biodiversity, PES etc)
- **Investors** providing the financing for implementing Green Transition activities (public sector for urban/transport/water, private sector for supply chain/production facilities/energy etc)
- **Industrial operators** implementing Green Transition driven restructuring
- **Industrial operators** building new Green Industry capabilities

This means working with:

- Industry Sector Representative Bodies (Steel production, energy generation etc)
- Foundations, CSOs and industry sector initiatives engaging industry stakeholders in GT related initiatives
- Representative large scale European industrial operators
- Private sector investment banks, Insurance/reinsurance providers etc
- IFIs providing loans to industrial operators (EBRD, IFC etc)
- Management Support System providers/operators
- Industrial providers of custom analytics services
- Industrial R&D entities

...and the geomatics industry sector



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#LPS25



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