

Mining industry and global value chains – S3 thematic partnership

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Business Joensuu, North Karelia

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Business Joensuu Oy

Supporting companies to
grow and become
international, providing
expertise to help to invest and
relocate

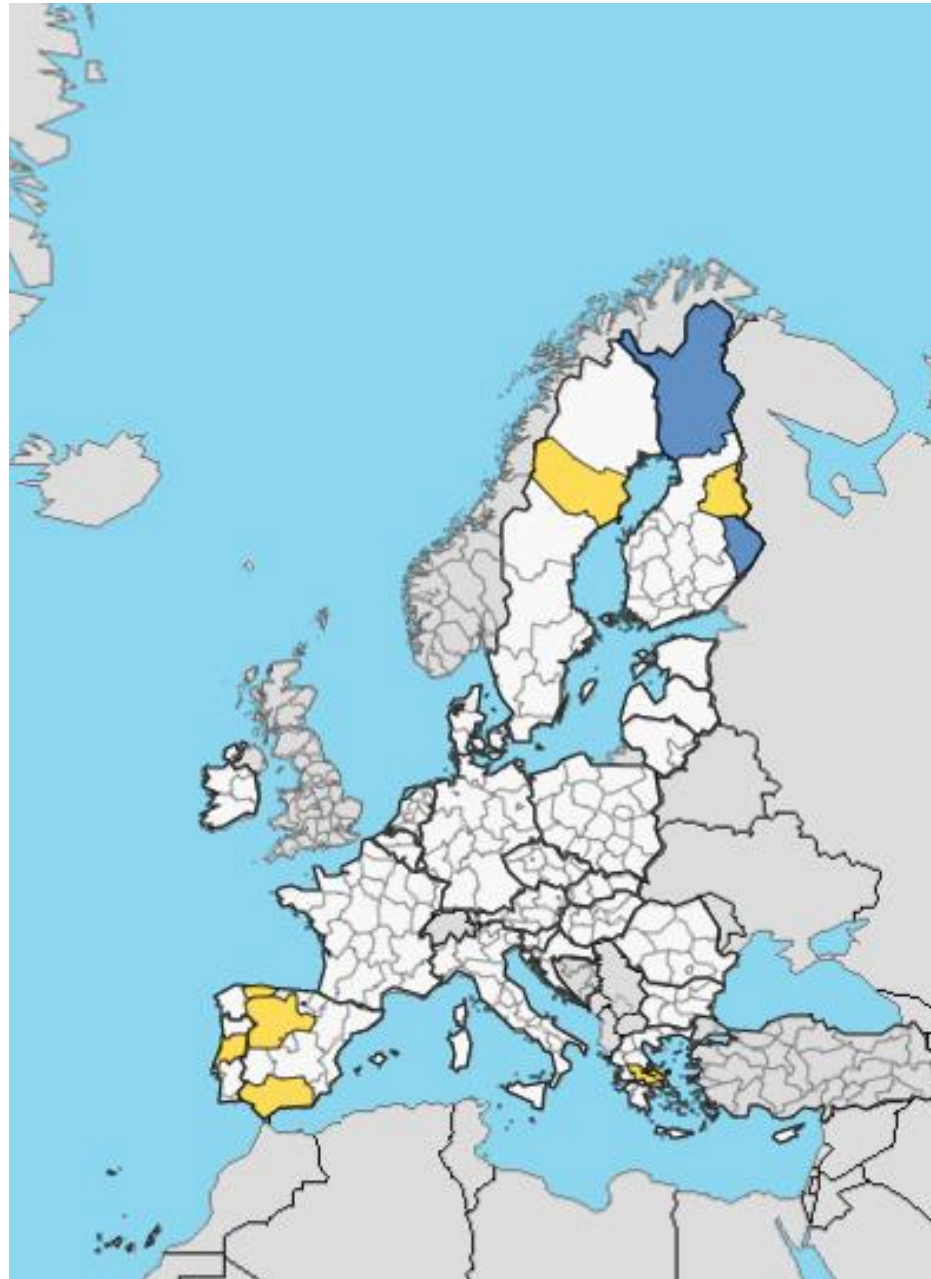
BUSINESS
JOENSUU

JOE
WITH



Participating regions

- North Karelia (FI), leading region
- Lapland (FI), co-leader
- Kainuu (FI)
- Castilla y Leon (ES)
- Asturias (ES)
- Andalusia (ES)
- Västerbotten (SE)
- Centro Portugal (PT)
- Sterea Ellada (GR)



Preliminary thematic areas for S3P Mining industry

- Empowerment of SMEs in Global Value Chains
 - Critical raw material production
 - New technologies and sustainable mining
 - Industrial circular economy
 - Social acceptance of mining through stakeholder involvement
 - Education and training in mining and related industries

Looking for meet you again in Thursday.



International Network of Business Joensuu Mining related operations

Global

OECD- Mining regions and cities
Australia, South America, USA, Canada,
Northern countries

European

Industrial
Modernization
Mining Industry and
global value chain
S3P
9 european
regions>+

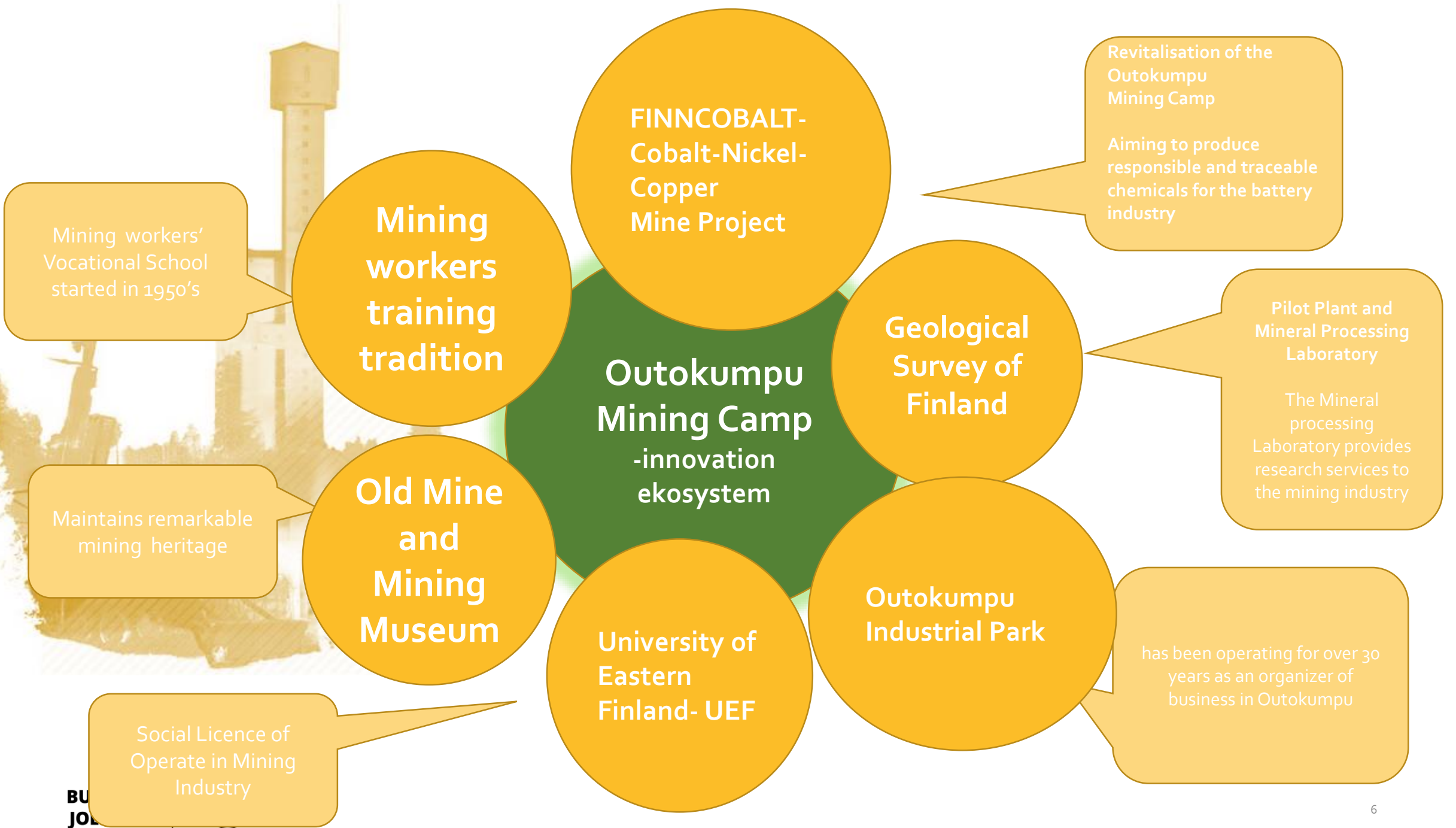
REMIX
9 european regions

Outokumpu
Mining
Camp

MIREU
16 european
countries +Chile

Local and Regional

Business Joensuu
North Karelia



Outokumpu Industrial Park

- In the city of Outokumpu exists a great mining related know-how inside one square km;
- **FinnCobalt**, cobalt mine project
- **Mintec**, research laboratory of Geological Survey of Finland
- **Outotec** and other technology providers



Outotec Oyj

Finnish listed technology and project company, selling complex mining technology and plant projects. Equipment manufacturing is carried out at Outotec's workshop in the city of Outokumpu.

- Manufacturing Project Management
- World class welding and machining capabilities
- Experienced assembly and testing staff
- Customer support (cost estimation, productization)



GTK MINTEC IN FINLAND

Beneficiation research for all types of minerals, ores and geomaterials

Full Digitalization and Automation for
The Minerals Processing Pilot Plant

Growth
through
mineral
processing
expertise

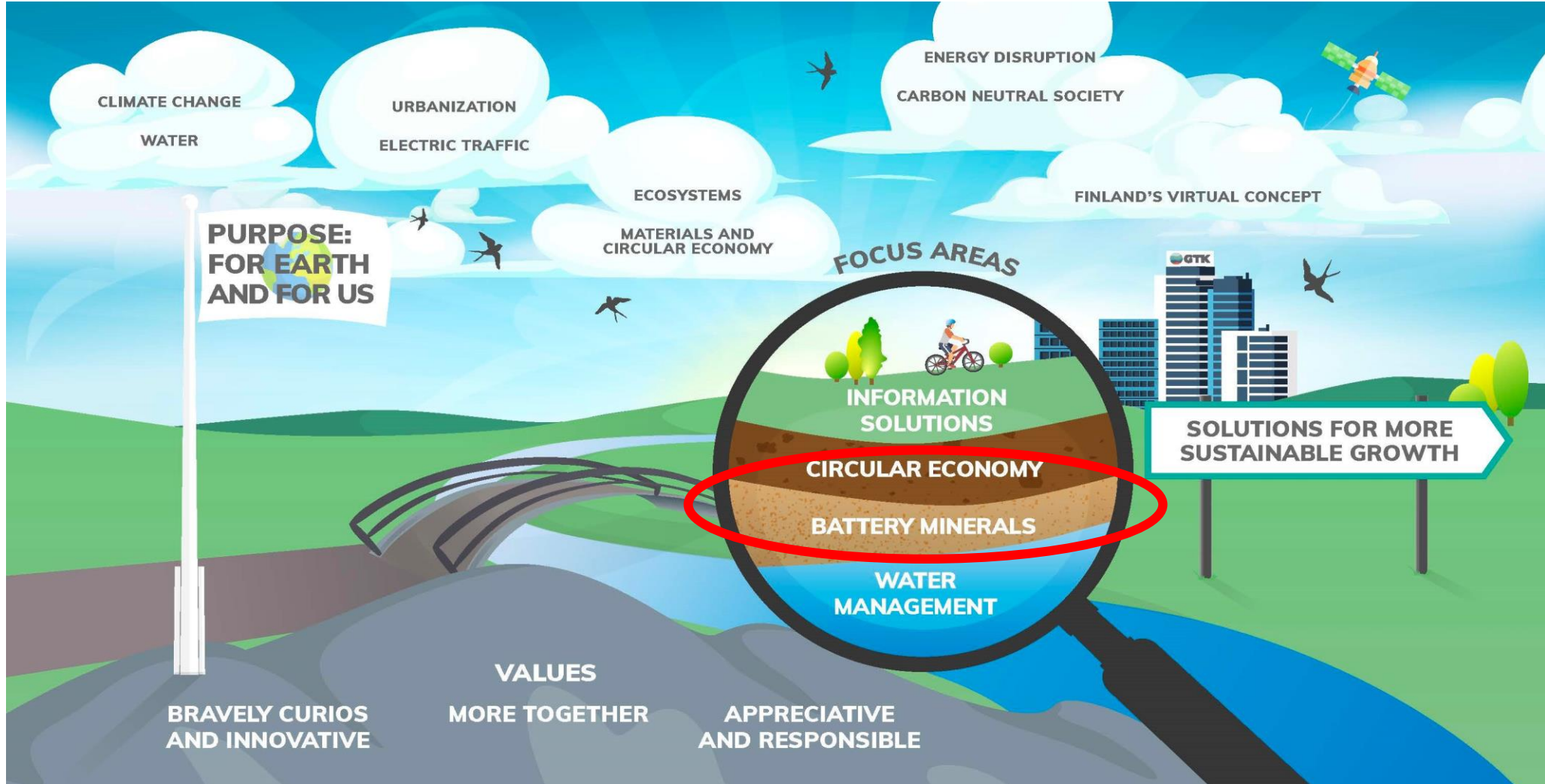


GTK
gtk.fi

GTK Mintec DEVELOPMENT PLAN

- Video: <http://www.gtk.fi/ajankohtaista/viestintamateriaalit/videot/>
- New pilot plant: Two Simultaneous processes
- Capacity up to 20.000 tons / pilot
- DigiTwinMin
- Co-working Space for post-docs
- Smart Tailings Pond
- Fully Automated Chemical analysis
- Deep cooperation with Technology Suppliers: e.g. FLS, Startups → Technology partnership

Strategy 2020-2023



Thank you !

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