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6G 

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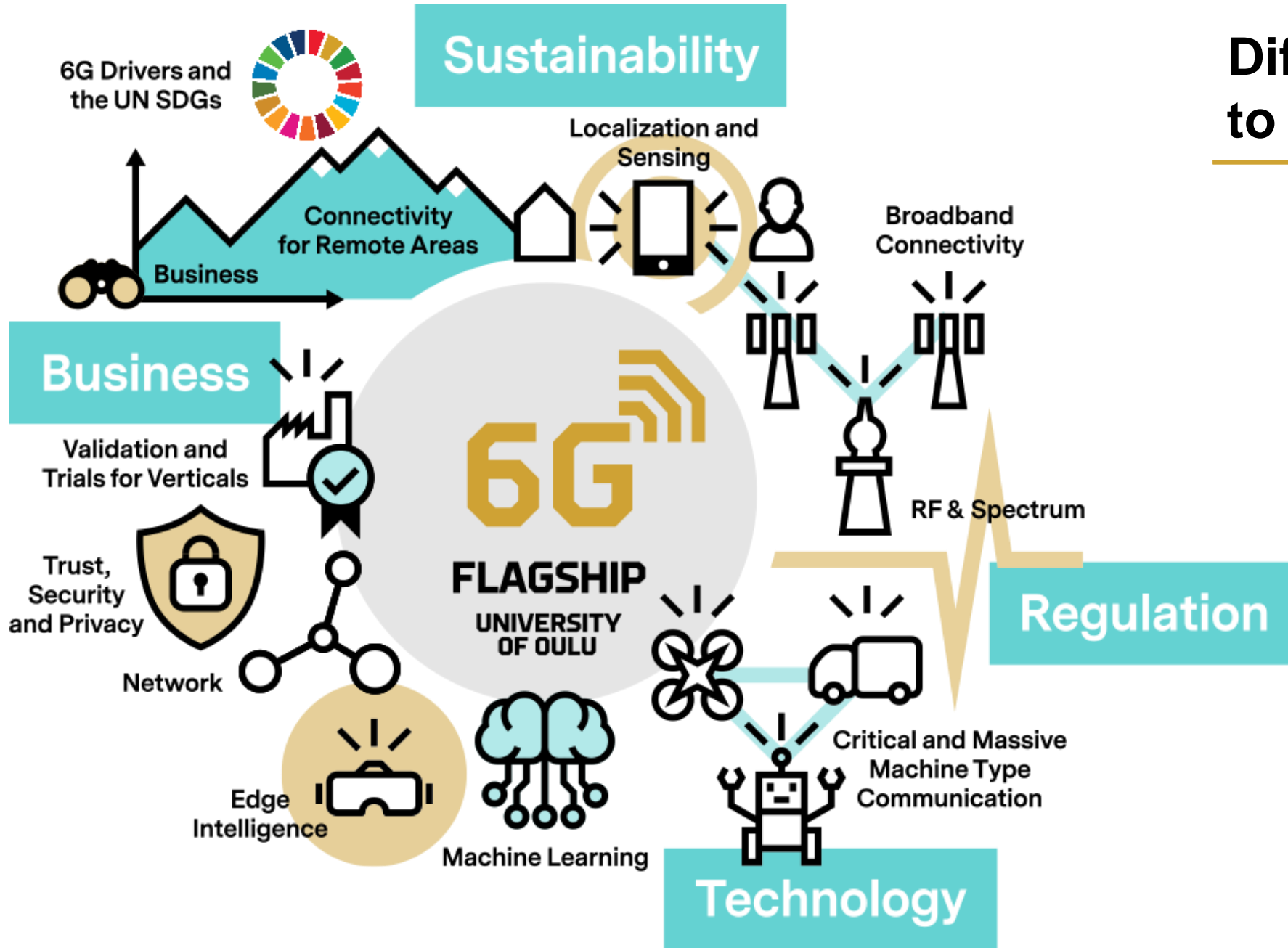
**From non-public private 5G
networks towards local 6G
connectivity**

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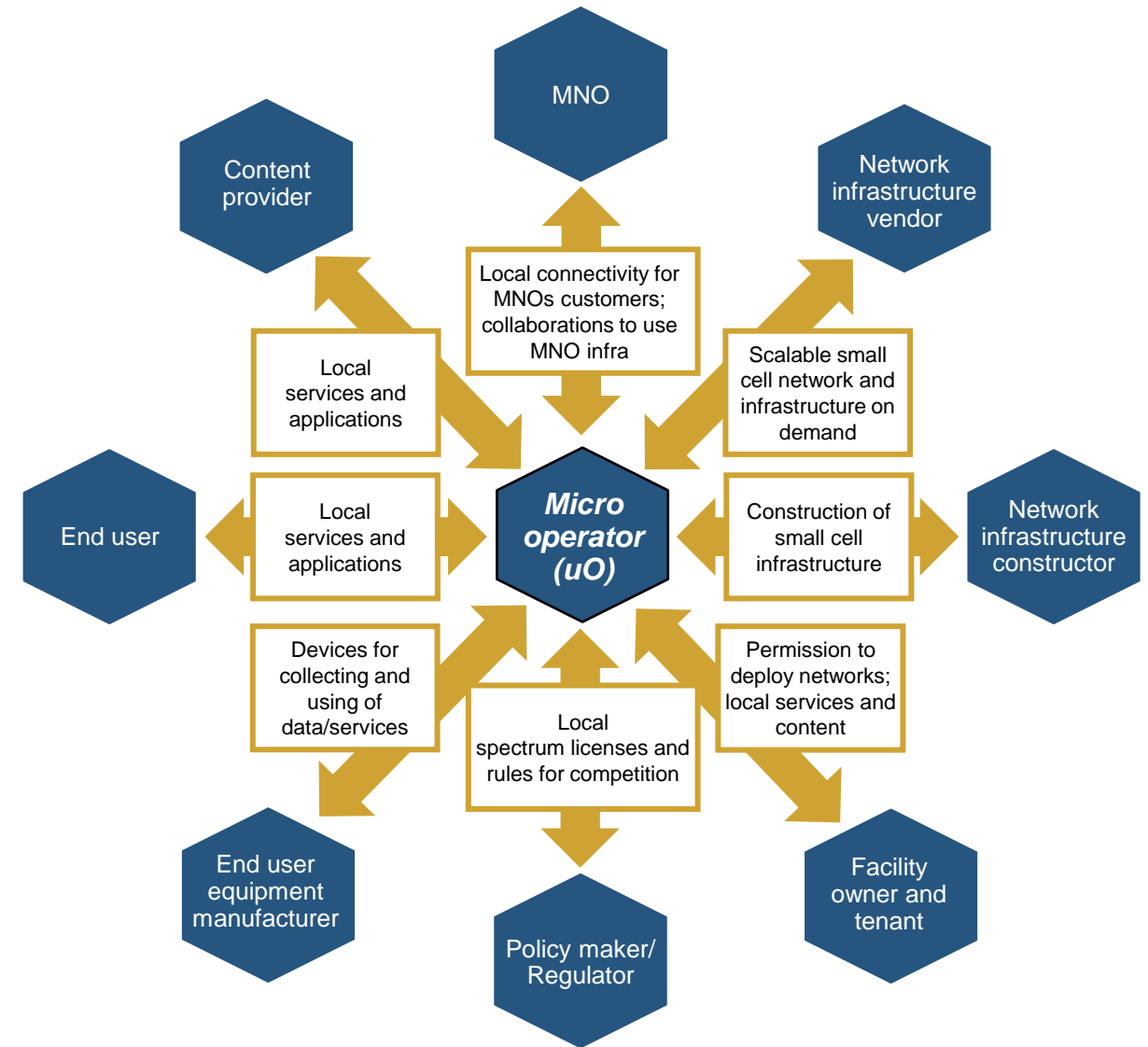
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Different Aspects to be Covered



Micro Operator (or Local Operator)

- **Virtual operator** does not have own infrastructure but has own customer base.
- **Micro operator (uO)** has own infrastructure but not necessarily own customer base.
- **Revenue models** for uOs are not based on monthly fees of bytes.
 - Part of property offering – inclusion to rent
 - Part of customer service model
 - Improving the efficiency of public service => savings for society
- Possible only via changes in regulation.



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Private 5G networks are **nonpublic** mobile networks,
uO concept allows also (national) **roaming** and can be public.

Japan – Finland collaboration on local 6G connectivity



- Basic idea: independent sister projects in Japan and Finland funding only organizations of the respective country, BUT having lot of collaboration
- Proposal for a 3-year project at Finland side was submitted in Oct-22; has three WPs:
 - WP1 – Spectrum considerations & radio resource management for local 6G
 - WP2 – Smart campus demonstrations
 - WP3 – Local 6G market and usecase study
 - WP 4 – Japan-Finland collaboration and dissemination
- Finland side consortium includes
 - Infrastructre provider: **Nokia**
 - Mobile operator: **Elisa**
 - Mobile operators association: **Finnet**
 - IoT company: **Haltian**
 - Indoor network planning tool: **Ekahau**
 - Dynamic Spectrum Access solutions: **Fairspectrum**
 - Regulator: **Traficom**
 - Research insitution: **University of Oulu**



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