



Key values for SA1

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Background – values and ICT

- Key values Based on UN Sustainable Development Goals (SDGs) – Environmental, Social, Economic aspects
 - Example Key Values: Resource efficiency, Privacy, Trust, Openness, etc.
- Scope:
 - Direct value outcomes (ICT sector) related to technology itself
 - Enabled/induced value outcomes (other sectors) related to use cases
- Ambitions:
 - **Sustainable 6G** (direct) – minimize ICT footprint (negative effects)
 - **6G for sustainability** (induced/enabled) – maximize value benefits (positive effects) and minimize value detriments (negative effects)



Importance of working with key values

- Communication technology is getting increasingly important. Not only for the consumers but also for vital infrastructure and society.
- The whole society is more and more dependent on a communication system. With this, other requirements than KPI's needs to be treated with equally importance.
- Communication technology needs to take global challenges into account.
- When 3GPP technology usage is increasing, it is important to fulfill additional values for government etc. This is already done to a large extent but could be formalized more.
- ITU-R, NGMN, 6G-IA, Hexa-X-II and Next G Alliance have started to use KV as a way to describe other values than KPI's

KVIs



- Value-driven development:
 - To steer technology towards wanted impact (KVI-oriented)
 - A parallel to performance-driven technology (KPI-oriented)
- KVIs for the different scopes:
 - “Technology KVIs” – metrics for direct footprints related to technology
 - “Use case KVIs” – metrics for induced/enabled benefits and detriments related to use case
- **Technology KVIs** should be considered when developing technology
 - To reduce negative impact of technology
- **Use case KVIs** should be considered when formulating use cases
 - To identify risks and enable benefits



Proposed selection of key values to work with

Ericsson's proposal is to use a subset of the UN agenda 2030 as **key values**, and we recommend to use **these four**:

- Environmental Sustainability
- Privacy and confidentiality
- Trust
- Digital inclusion



Proposal how the use cases are documented

This proposal is using the same sub chapters within the use case as in TR-22.891, (first 5G TR) with the addition on **KV considerations** as proposed in SA1#105

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Proposal



For
SA1#106



We suggest to do an initial test in SA1 6G study and suggest to:

1. Agree on a set of recommended KVs to use during SID discussion
2. Create a dedicated use case template for Rel-20, phase 2 with an additional subchapter **"KV considerations"**.
3. This dedicated use case template is used for each use case during the study phase to capture KV(s).
4. Consolidation can be captured in a separate subchapter **"Potential Consolidated KVI metrics"**

In the end of 6G SA1 study will evaluate the usefulness of KV as concept and agree if and how to incorporate this work into future normative specification.

