

Expectation of VR & AR technologies and promising uses

D2, PS 1 – Question 1.4

“What are the expectations of electric power utilities from the virtual and augmented reality technologies? Are they going to be used only for engineering staff training or there are other promising applications?”

Sarala M Naidu, Sweden

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Expectation of VR & AR technologies

Few key expectations of these advanced technologies to serve customer better are:

- **Standards :**
 - Applicability of existing safety standards → are new and modified standards needed to meet industry expectations
 - Applicability of existing wireless communications standards directly, enabling utilities to maintain consistency with existing infrastructure
 - device physical connection standards and power management considerations
 - a critical need to address internal utility process standards (e.g., work instructions, work flows) and compatibility with the Common Information Model (CIM) used in the utility industry.
- How can AR solutions co-exist in a utility communications environment
- Addressing the Interference issues for adopting these technologies

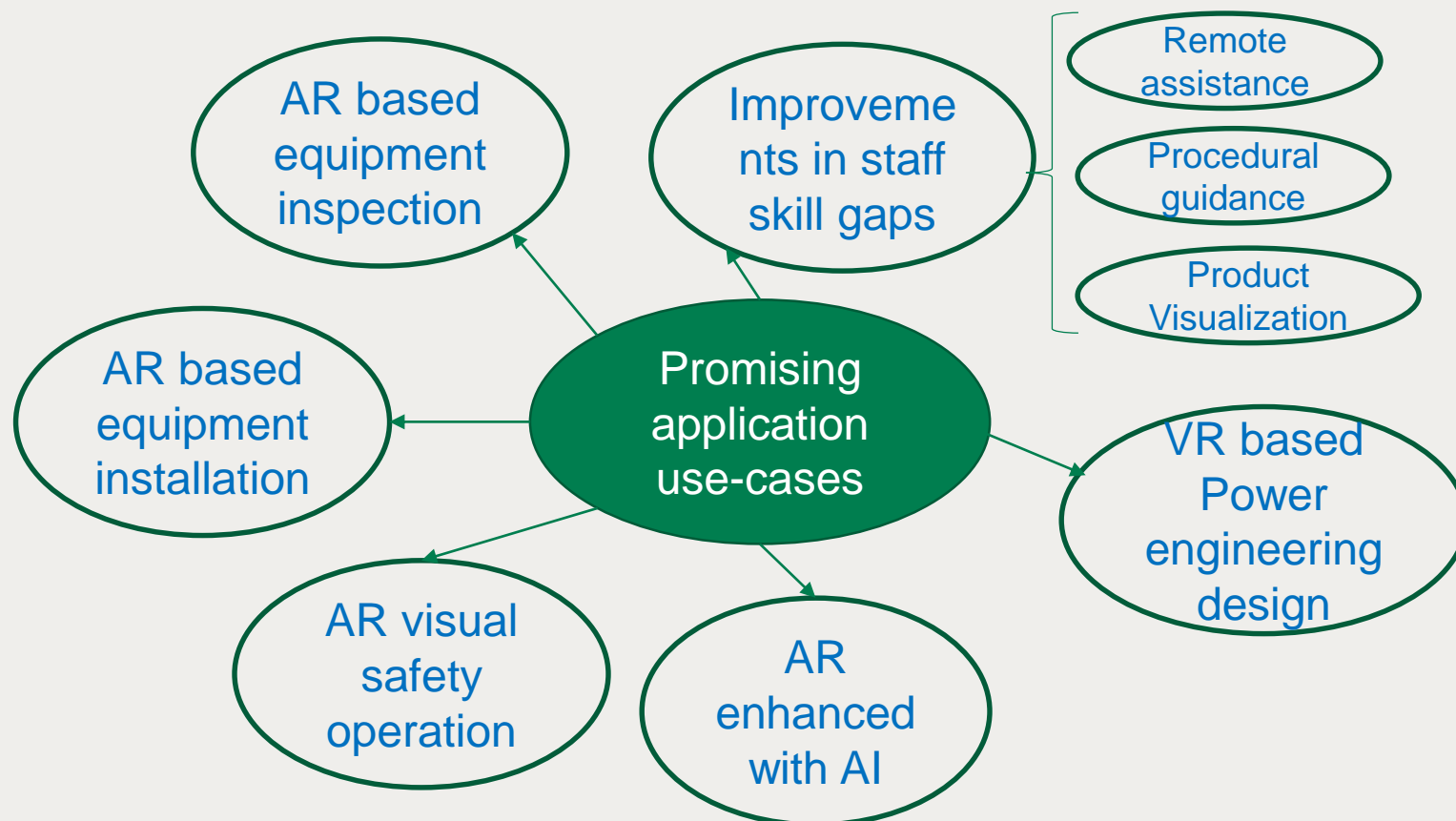


➤ Augmented reality solutions have **potential benefits** for application in the utility environment. However, many **issues** remain to be addressed to **build the business case**, as well as to **gain the acceptance** and adoption by the utility community.

➤ Compelling use cases, standards, education, and the unique utility regulatory environment will all need to be pursued to implement AR solutions into the utility industry.

Group Discussion Meeting

Promising use case applications of AR & VR?



“I love AR because unlike VR, which locks the world in place, AR enables individuals to be present in the world, but hopefully an improvement on what’s going on.”

Tim Cook, Apple CEO