Digital and green transformations – opportunities and challenges

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Outline

Background

Digital Technologies – opportunities

Challenges – need to address SDGs as a whole

Key issues for regulation and standardization

Opportunities for regulatory cooperation

Incorporating work into WP 6

Background - Foundation

SDG pillars - people, planet, prosperity, partnership and peace – human-centered, prosperity for all

Key principles - trustworthiness, inclusiveness, sustainability, interoperability, safety and security, and data privacy

Foundation for standardization

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Digital Technologies

AI – market surveillance, agriculture

Blockchain – global value chain (agriculture) – traceability

Internet of things – smart cities – industrial development

Robotics – manufacturing, health

3D printing – construction, manufacturing

Unmanned aircraft (drones) – conformity assessment

Challenges

Technological capability

Governance and quality infrastructure

Coordination of standardization efforts

Inclusion of experts from developing economies

Privacy and personal rights

Addressing SDGs as whole

Incorporating work into WP 6 - Options

Establish new set of recommendations

Develop guideline for standardization for digital and green transformation

Focus on key aspects in WP Topics

Potential incorporation in WP 6 Topics

GRM – incorporation of risk technology in AI

MARS – application of AI to improve surveillance

START – education on standardization for digital technologies

GRSI – key considerations for standardization

Potential assistance to developing economies

Assist in developing regulatory framework and quality infrastructure – need robust strategy

Assist in specific projects for digital technology application

Transfer technology from developed economies – use of technology

Conclusion

Benefits of digital technologies for developing economies can be substantial

Establish foundation with technology transfer and strategy

Develop regulatory framework and quality infrastructure

Participate in standardization efforts

Use the SDG pillars as guide for development

Thank you!

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