

International standards portfolio to enable AI applications

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SC 42 – Artificial Intelligence

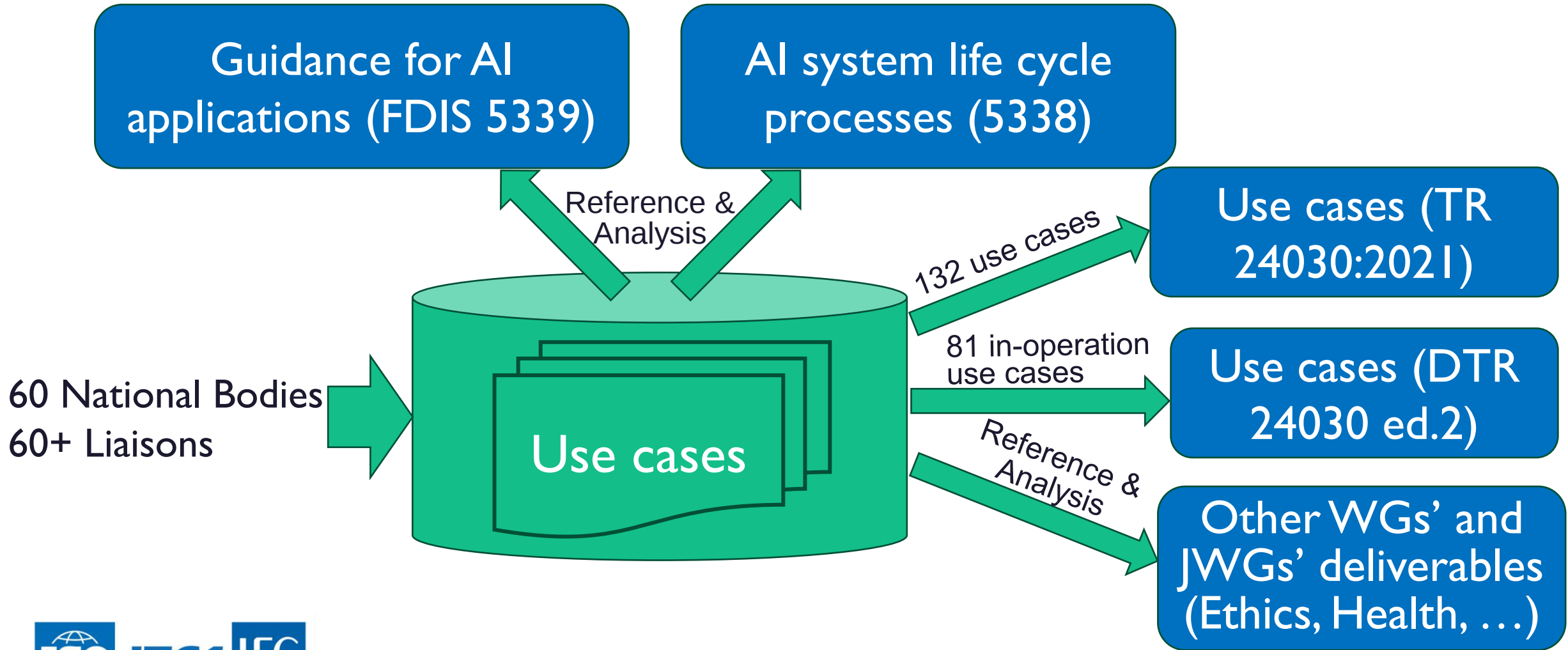
SC 42/WG 4 “Use cases and applications”

- Terms of Reference (ToR)
 - Use cases and applications for AI Standardization
- Officers
 - Convenor: Fumi Maruyama
 - Secretary: Nobu Hosokawa
 - Project Editors:
 - Yuchang Cheng (ISO/IEC TR 24030 – Use cases, ISO/IEC 5338 – AI system life cycle processes, PWI 42109 – Human-machine teaming)
 - Shrikant Bhat (ISO/IEC FDIS 5339 – Guidance for AI applications)
 - Harm Ellens (ISO/IEC TR 20226 – Environmental sustainability aspects of AI systems)
 - Stephen Kwan (ISO/IEC TR 21221 – Beneficial AI systems)
 - Yugyung Na (PWI 42113 – Evaluation metrics for AI use cases and applications)

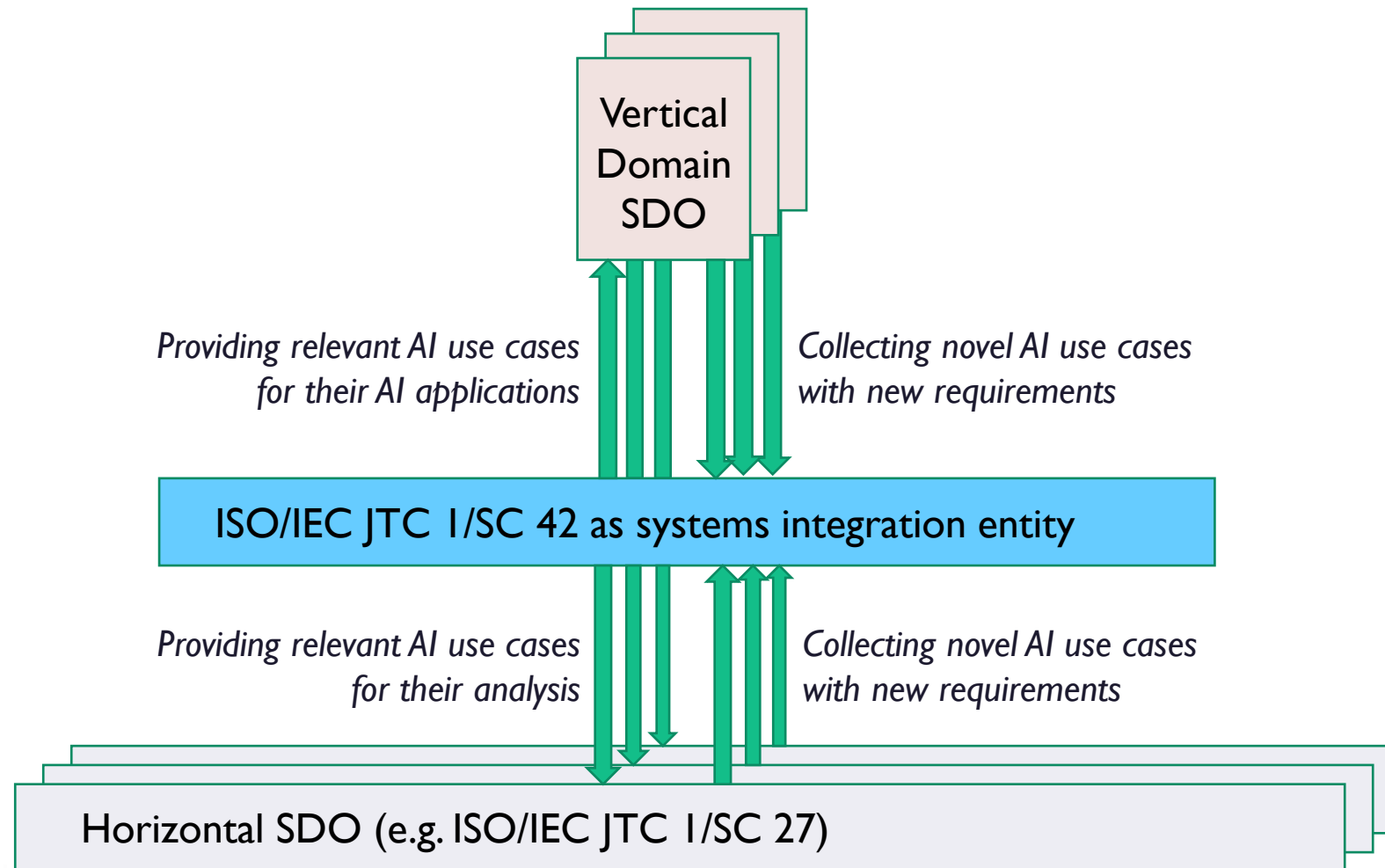
Overview of what SC 42/WG 4 does

- Collect representative use cases and analyze them for derived requirements
 - Collect AI use cases from National Bodies and liaison organizations and provide relevant collected use cases for reference and analysis
 - Use cases enable realistic and sound analysis and discussion.
- Identify AI application domains, context of AI use in those domains and develop guidance
 - Provide AI application developers and AI application standards developers with an entry point to standards relevant to AI applications
 - Work on relevant standards to enable AI applications

Use cases in SC 42

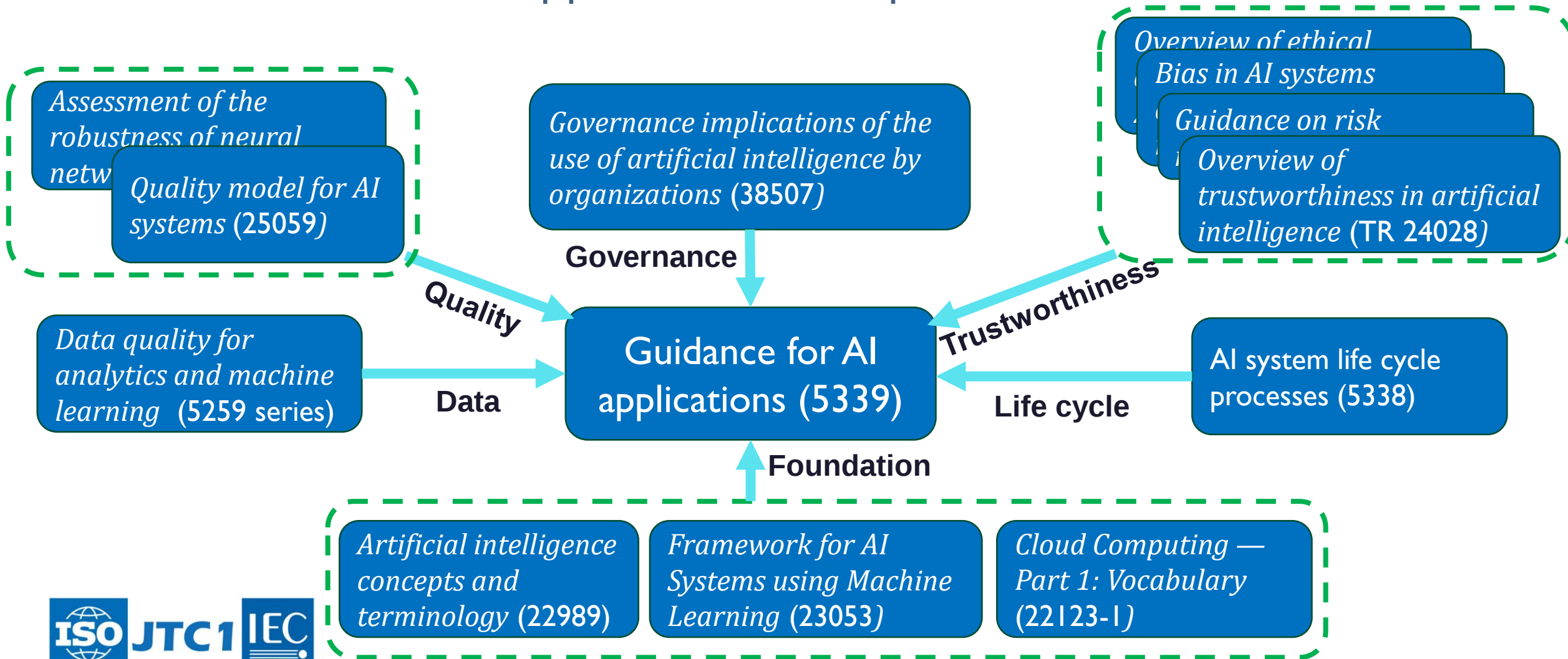


Collaboration through exchange of AI use cases

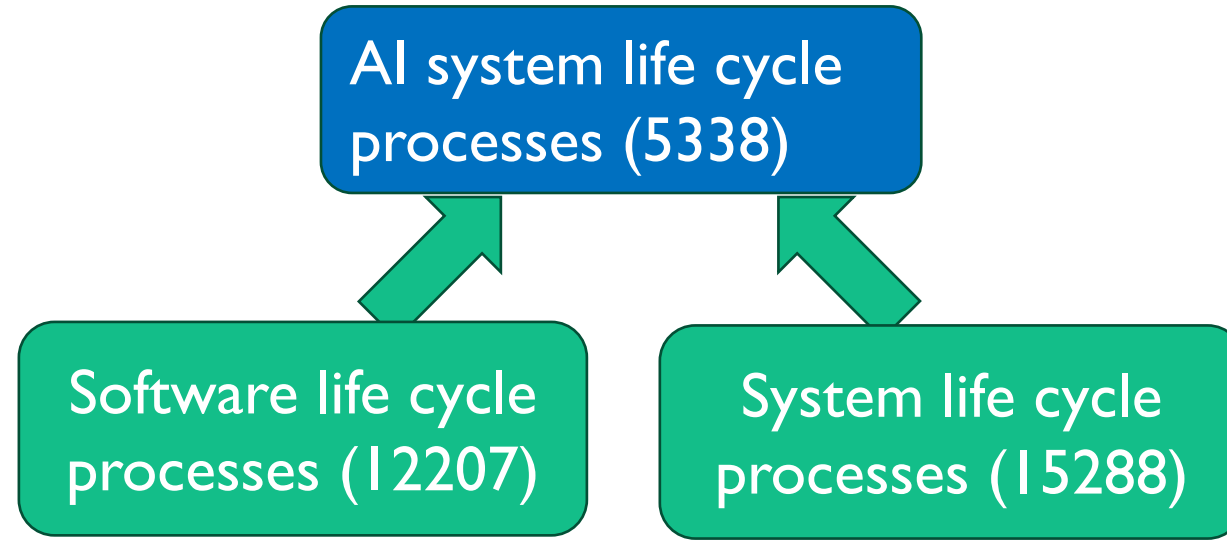


Guidance for AI applications (5339)

- The first standard AI application developers should look at

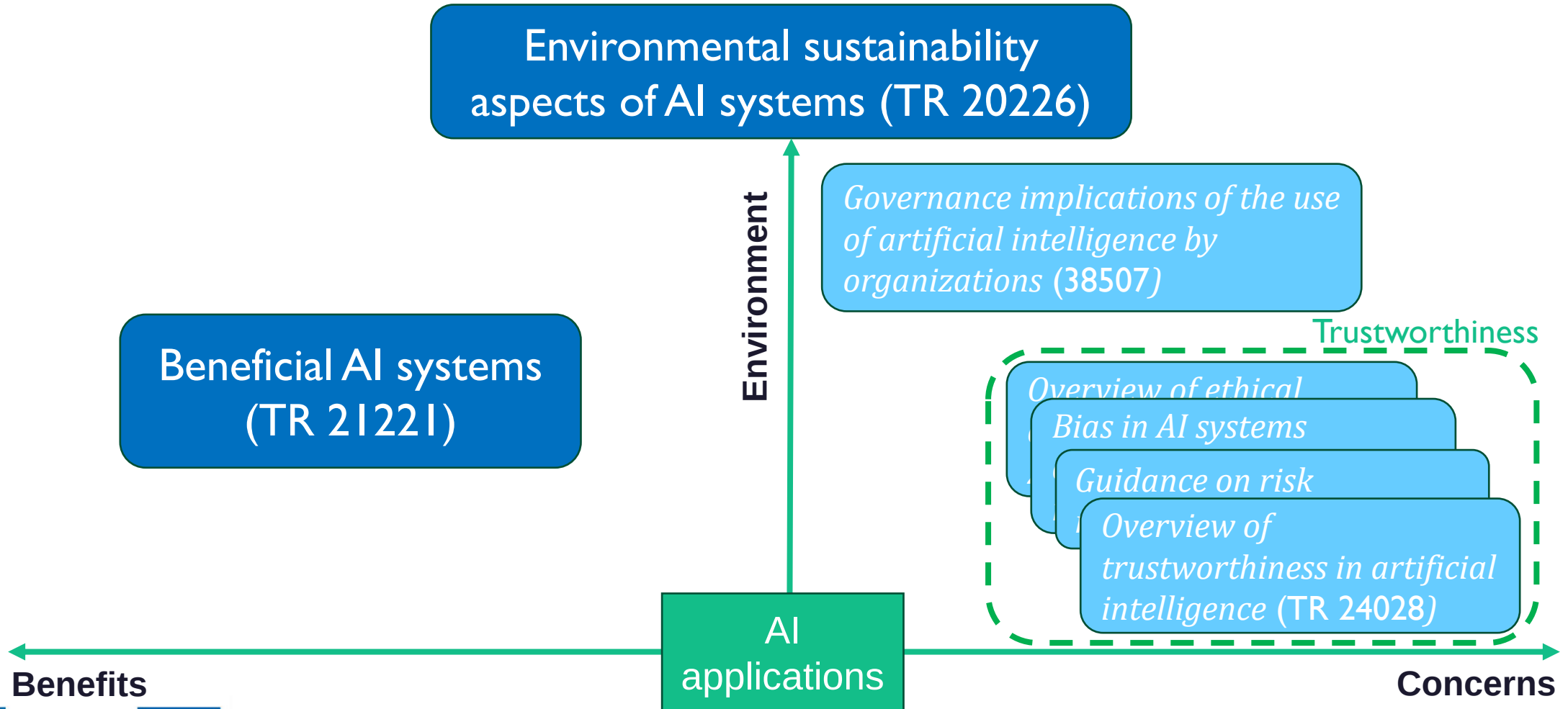


AI system life cycle processes (5338)

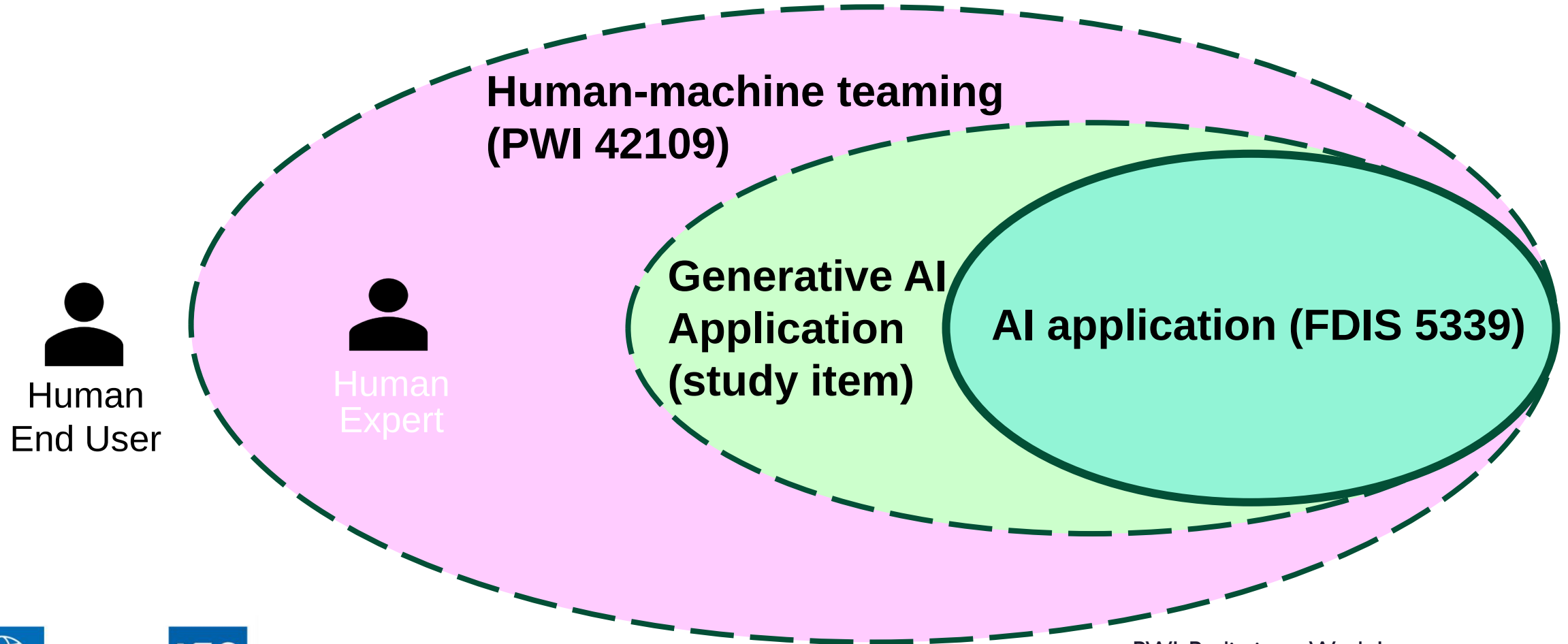


- While traditional hardware and software life cycle processes are broadly applicable to AI systems, it is required to introduce new processes and modify existing ones to accommodate AI-specific particularities.

Other aspects of AI applications



Next steps - Extending scope



Summary

- SC 42 continues to collect AI use cases and is collaborating with other SDOs through exchange of them.
 - Use cases are the “currency” between SDO committees.
- SC 42 is working on a portfolio of standards to help AI application developers and AI application standards developers.
- SC 42 is trying to extend the scope by including generative AI applications and human-machine teaming.

Thank you

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