

János Farkas' Views on Some Potential New Projects for TSN

an individual view and contribution

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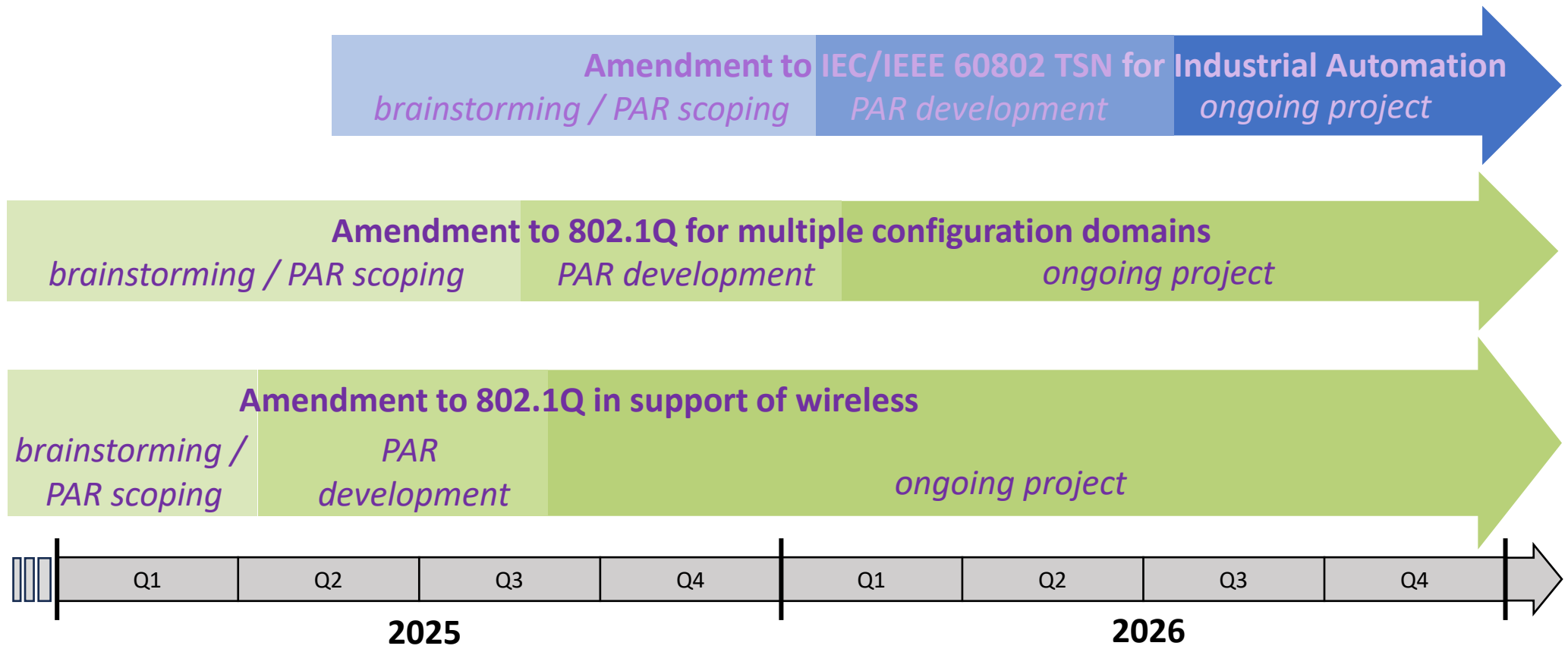
Disclaimer

- **predictions are difficult, especially about the future**

János Farkas' Views on *Some* Potential New Projects for TSN

legend:

- TSN profile
- base



NOTE – This is views of an individual, none of the above has been approved by the IEEE 802.1 WG as of March 10, 2025

This slide only shows **some** expected new work, see already ongoing TSN projects at: https://1.ieee802.org/tsn/#Ongoing_TSN_Projects

Background – Considerations on Wireless and Multiple Configuration Domains in Base Spec

- Contributions on adding support in favor of wireless
 - <https://www.ieee802.org/1/files/public/docs2020/dj-farkas-configuration-enhancements-for-5G-0920-v01.pdf>
 - <https://www.ieee802.org/1/files/public/docs2021/dj-seewald-wireless-tsn-0721-v01.pdf>
 - <https://www.ieee802.org/1/files/public/docs2024/new-duerr-control-plane-extensions-and-YANG-for-wireless-aware-TE-0924-v01.pdf>
 - <https://www.ieee802.org/1/files/public/docs2025/new-farkas-control-plane-extensions-for-wireless-aware-TE-0225-v01.pdf>
 - <https://www.ieee802.org/1/files/public/docs2025/new-farkas-control-plane-extensions-for-wireless-aware-TE-0325-v02.pdf>
- Multiple configuration domains
 - IEC/IEEE 60802 touches upon configuration domain boundary port behaviour
 - Some further considerations so far
 - <https://www.ieee802.org/1/files/public/docs2021/new-farkas-inter-domain-considerations-0721-v01.pdf>
 - <https://www.ieee802.org/1/files/public/docs2024/new-farkas-multiple-configuration-domains-0924-v01.pdf>
- **NOTE – For being too busy with other projects, the group parked wireless and multi-domain earlier. It may be time to start addressing these gaps.**

Background – IEC/IEEE 60802 Amendment

- Envisioned as a Joint Project between IEC and IEEE
- Colloquially referred to as “60802 Release 2” / “60802 Edition 2”
- **As per the group’s decision, multiple topics have been deliberately left out from the initial IEC/IEEE 60802, to be able to get done**
- Some example topics:
 - P802.1DU Cut-Through Forwarding
 - [IEC/IEEE 60802 Use Cases](#) document includes, e.g.:
 - 2.2.2 Interconnection of TSN domains
 - 2.5.3 Use Case 09: Wireless
 - 2.5.8 Use Case 14: Multiple isochronous domains
 - IEC/IEEE 60802 / [D2.0](#) includes Annex Z.2 Topics for Edition 2
 - Several further topics have been raised, e.g., improving security, etc.
- Proposal:
 - Start brainstorming at the May Interim session
 - Conduct brainstorming and pre-project work at the May, July, September, November 2025 sessions
 - Start PAR development early 2026