802.3 NEA

Jon Lewis – Chair
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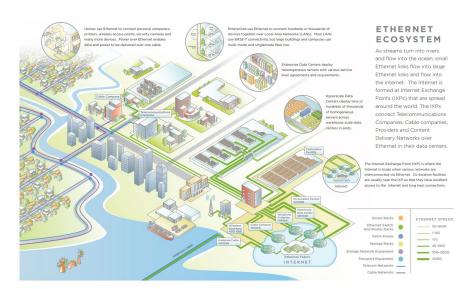
Ethernet Expands both in applications and speeds

Courtesy Ethernet Alliance: https://ethernetalliance.org/

- **Speeds continue to develop**
  - \>400 GbE currently in Study Group
  - 10 MbE with 802.3cg
  - Wide variance in speeds necessary for the entire solution space!

- **Ethernet ecosystem expands in application areas.**
  - Enterprise (Still going strong)
  - Edge/Telco
  - Industrial/Building Automation
  - Automotive

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How do new Ethernet projects start?

- Recent presentations to the NEA:
  - Records of meetings - https://www.ieee802.org/3/ad_hoc/ngrates/public/index.html
  - White Papers
  - Consensus Presentations
    - "SPE (Single Pair Ethernet) Enhancements" – 100% (Creation of multiple Study Groups)
    - "Ethernet Enhancements for High Performance Computing and Storage Systems" – 40%

- Completed Consensus projects from NEA process
  - Automotive – 802.3ch, P802.3cy
  - Industrial – 802.3cg
  - Building Automation – 802.3cg, SPEP2P Study Group, P802.3da
    - Lower speeds, shared media, control system applications
  - Beyond 10km – P802.3cw (400 GbE over DWDM)
  - Time Sync – P802.3cx, P802.3de
  - Beyond 400G – Next Speed bump (800 GbE, 1.6 TbE, 200 GbE, 400 GbE)

- If there is interest in developing a standard, then a Call For Interest (CFI) is held

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