



**standICT.eu 2026**  
ICT Standardisation Observatory and Support Facility in Europe

# Analysis of Citiverse Standardisation landscape (preliminary)

Antonio Kung, CEO, Trialog

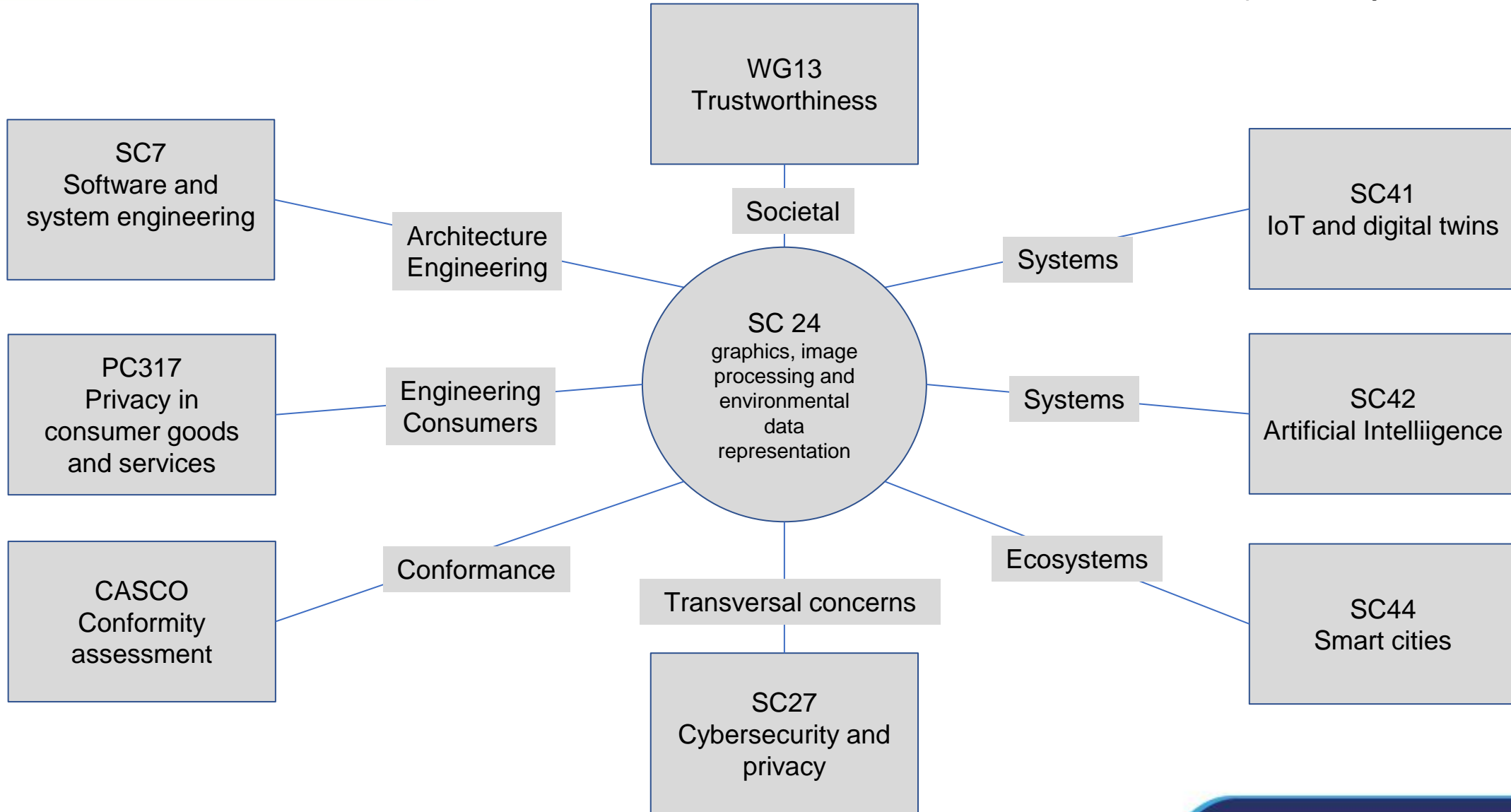


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# Virtual Worlds and Standardisation work started

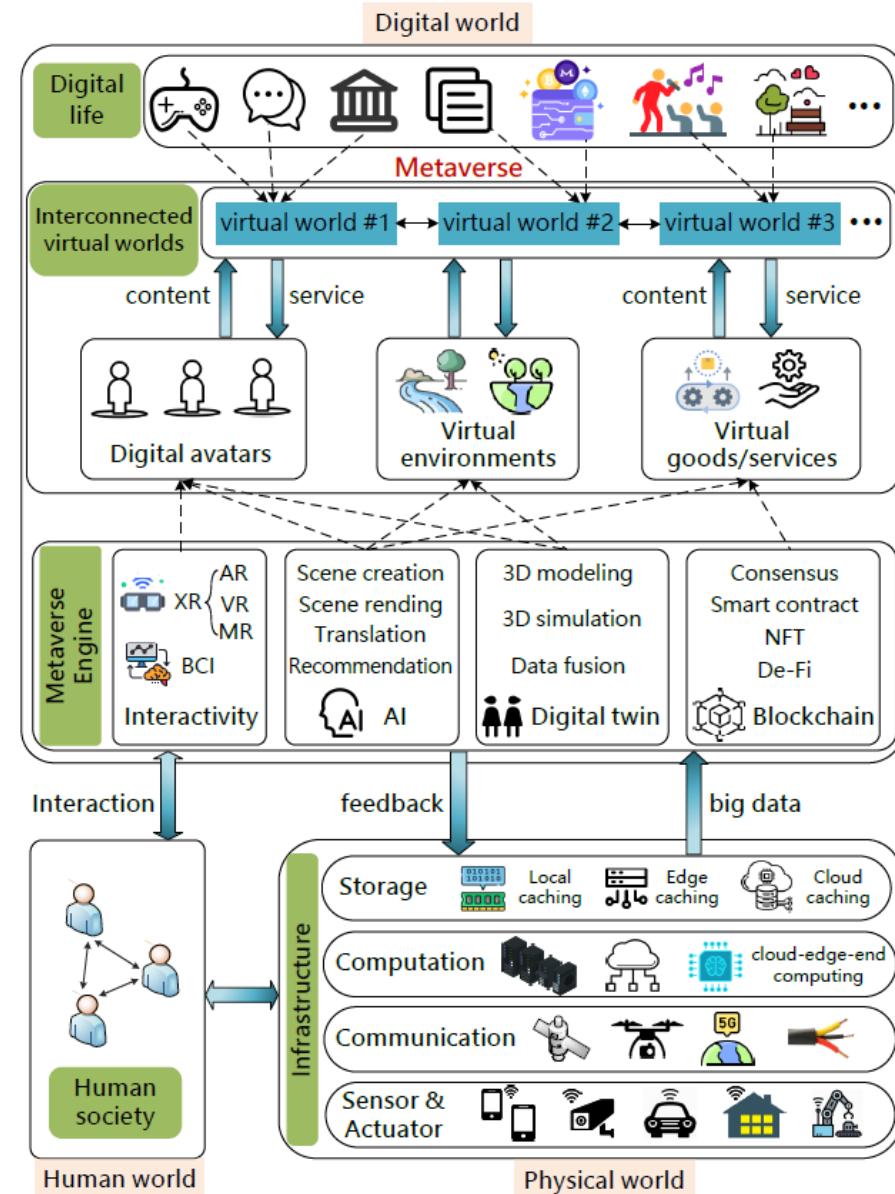
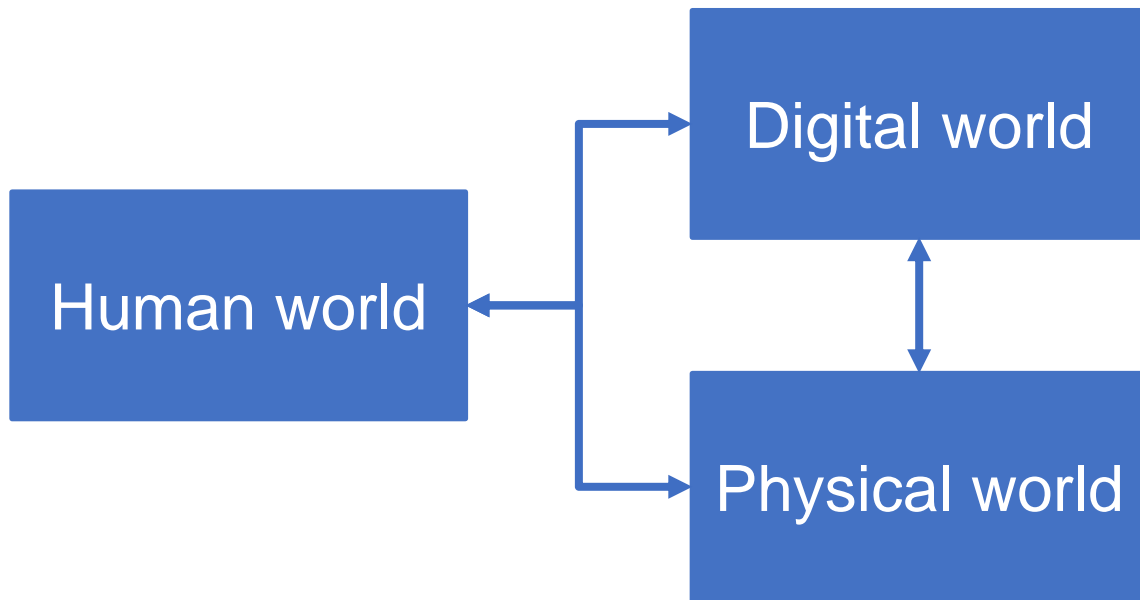
- ITU-T focus group on metaverse
  - **Contribution**
    - Participation open to everyone (register)
    - <https://www.itu.int/en/ITU-T/focusgroups/mv/Pages/default.aspx>
- IEC SEG 15 (jointly with ISO)
  - **SEG: standardisation evaluation group**
  - **Contribution**
    - Participation open to everyone (register)
    - [iec.ch/dyn/www/f?p=103:186:::::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:43649,25](http://iec.ch/dyn/www/f?p=103:186:::::FSP_ORG_ID,FSP_LANG_ID:43649,25)
- ISO/IEC JTC1 TTR (technology trend report) on metaverse
  - **Led by JTC 1/AG 2**
  - **TTR editor: Myeong Won Lee (JTC 1/SC 24 Chair)**
  - **Contribution (31/12/2023)**
    - Participation of national bodies
    - TWG Citiverse report to be submitted
- IEEE Metaverse standards committee

# The Integration Perspective Requires Liaison with other Committees and Standards (Example of ISO)

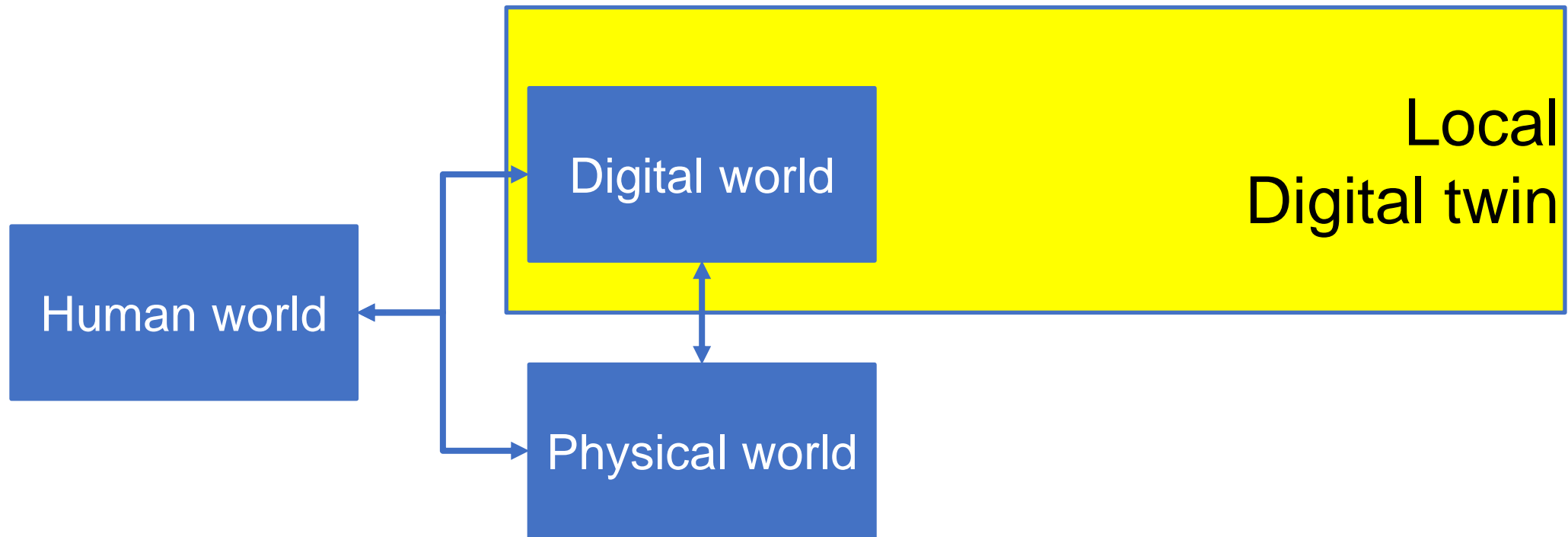


# Conceptual view of virtual worlds

- A Survey on Metaverse: Fundamentals, Security, and Privacy
  - <https://arxiv.org/abs/2203.02662>

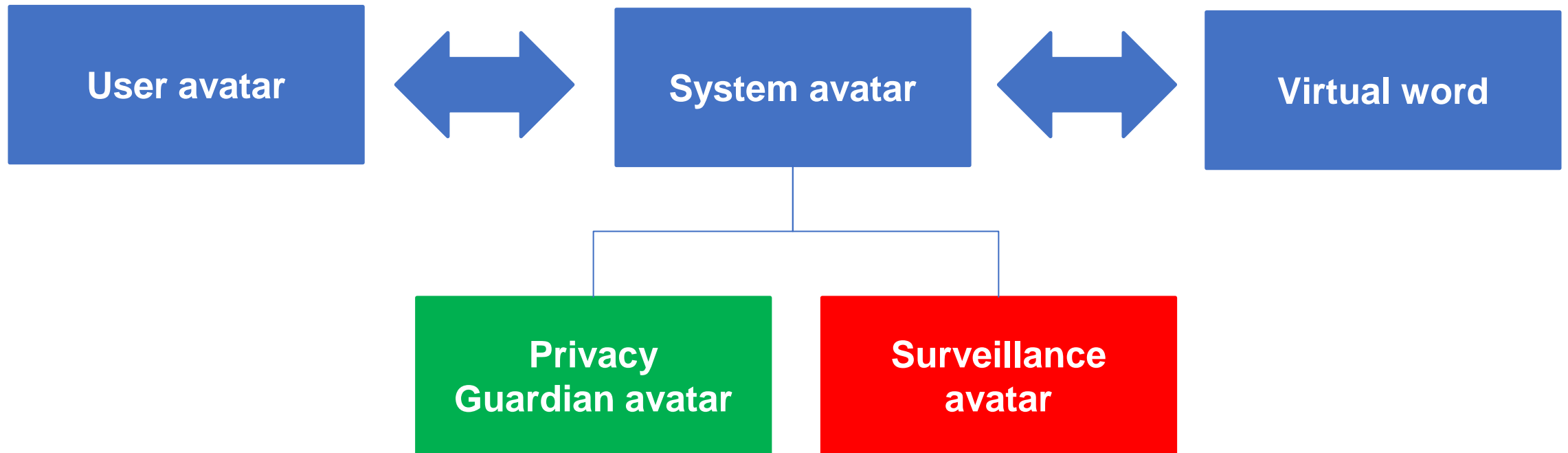


# Digital twin for the virtual world



# Privacy challenges for the virtual world

- Korean presentation to ISO/IEC JTC 1/SC 27
  - Privacy protection of user avatar and system avatar interactions in metaverse



“Pervasive monitoring by everyone”

“Identification management, anonymization and pseudonymization is going to be substantially more difficult in the metaverse”

Nat Sakimura

Japanese privacy and identification management expert.

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