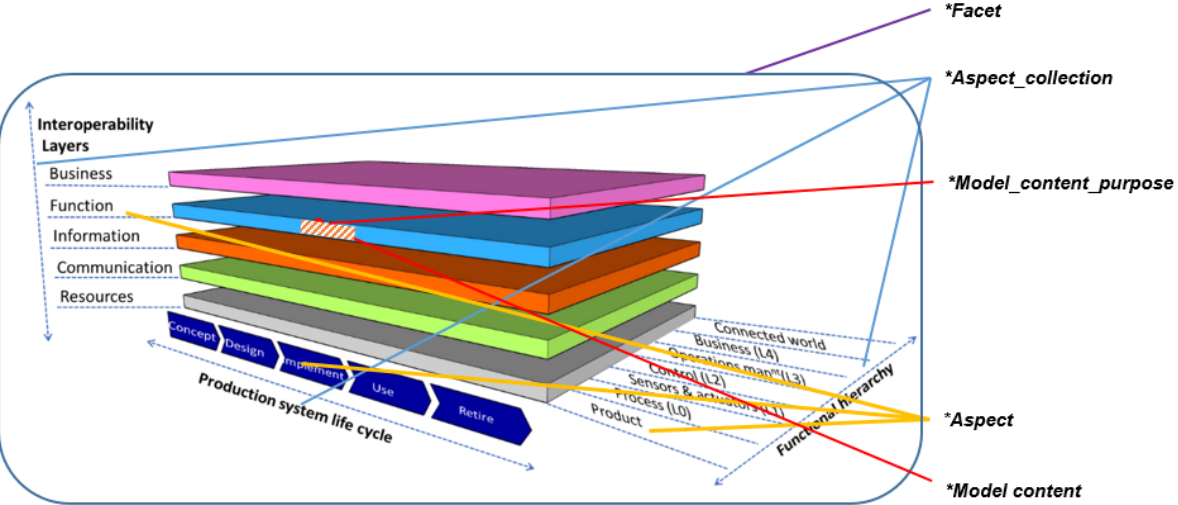
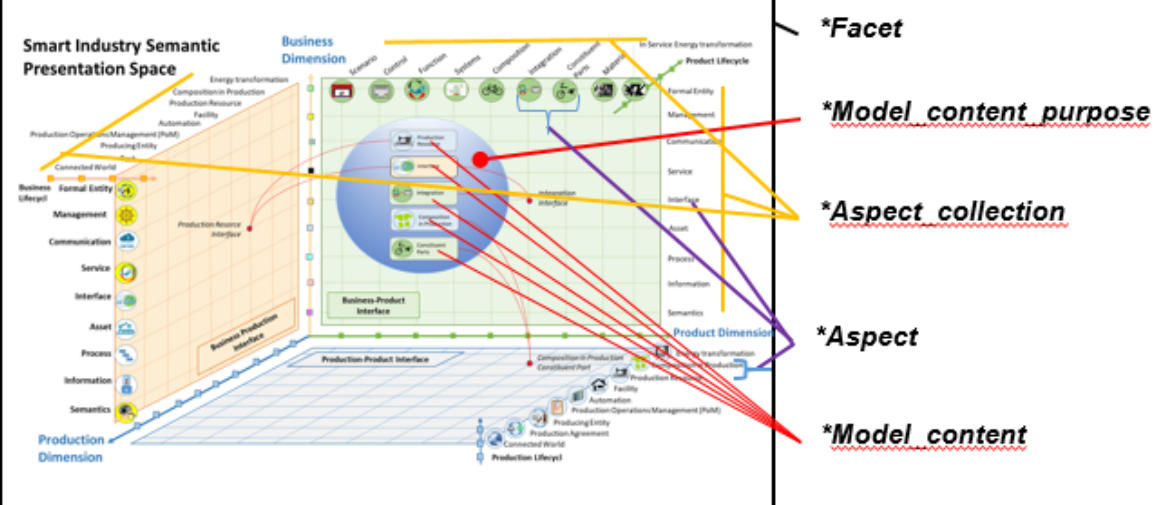
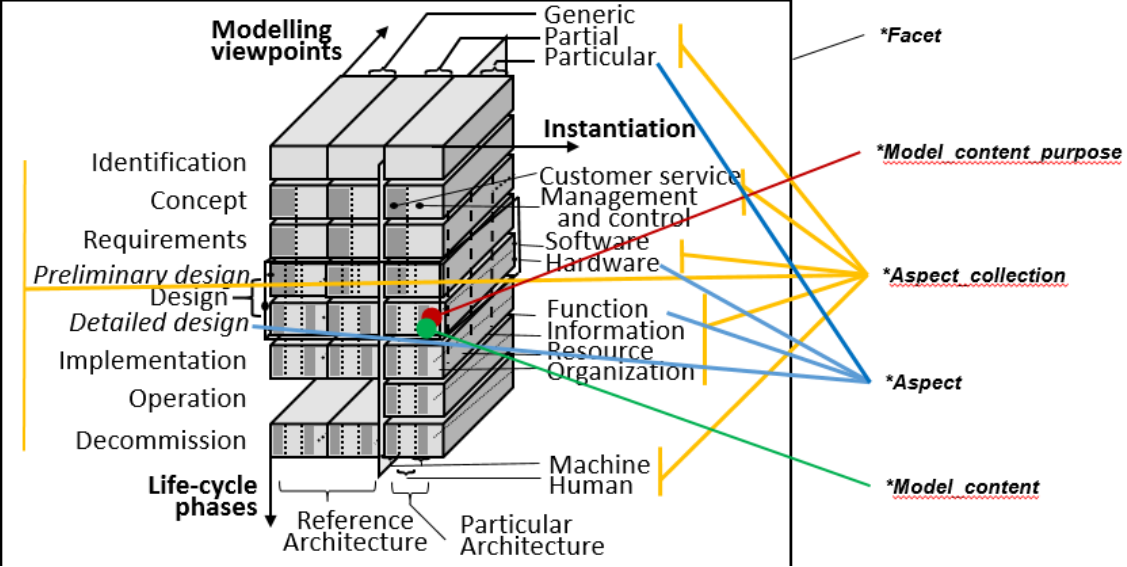
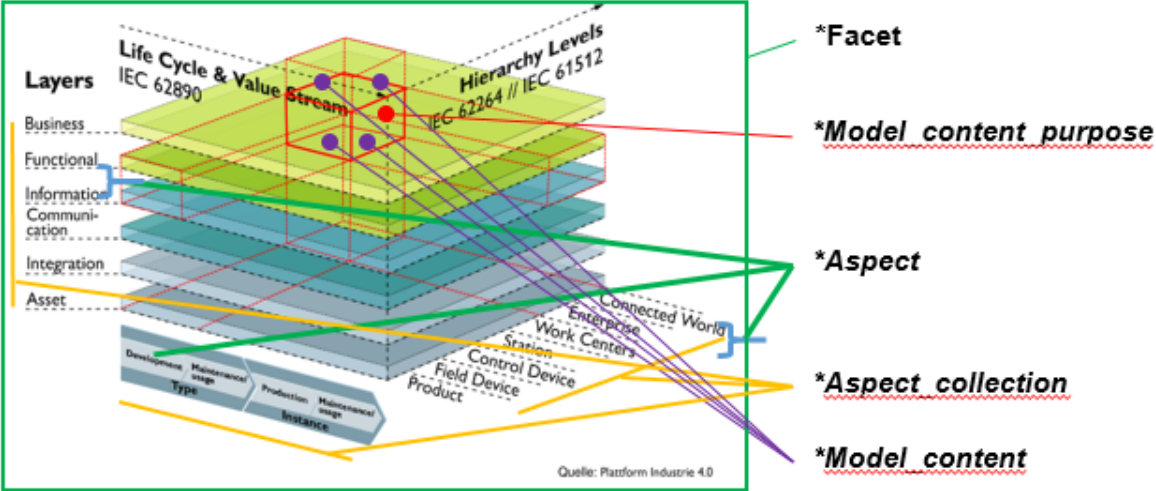


IEC 63339 Unified reference model for smart manufacturing

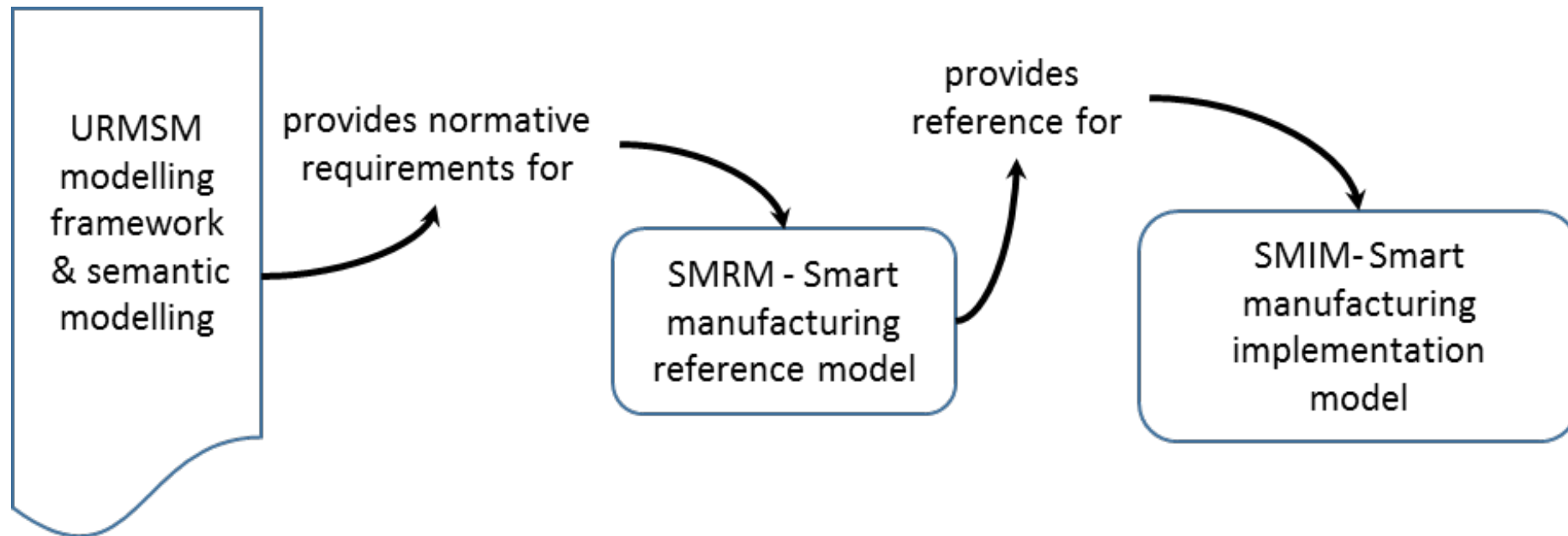
Presentation by Richard Martin

INCOSE IW'23

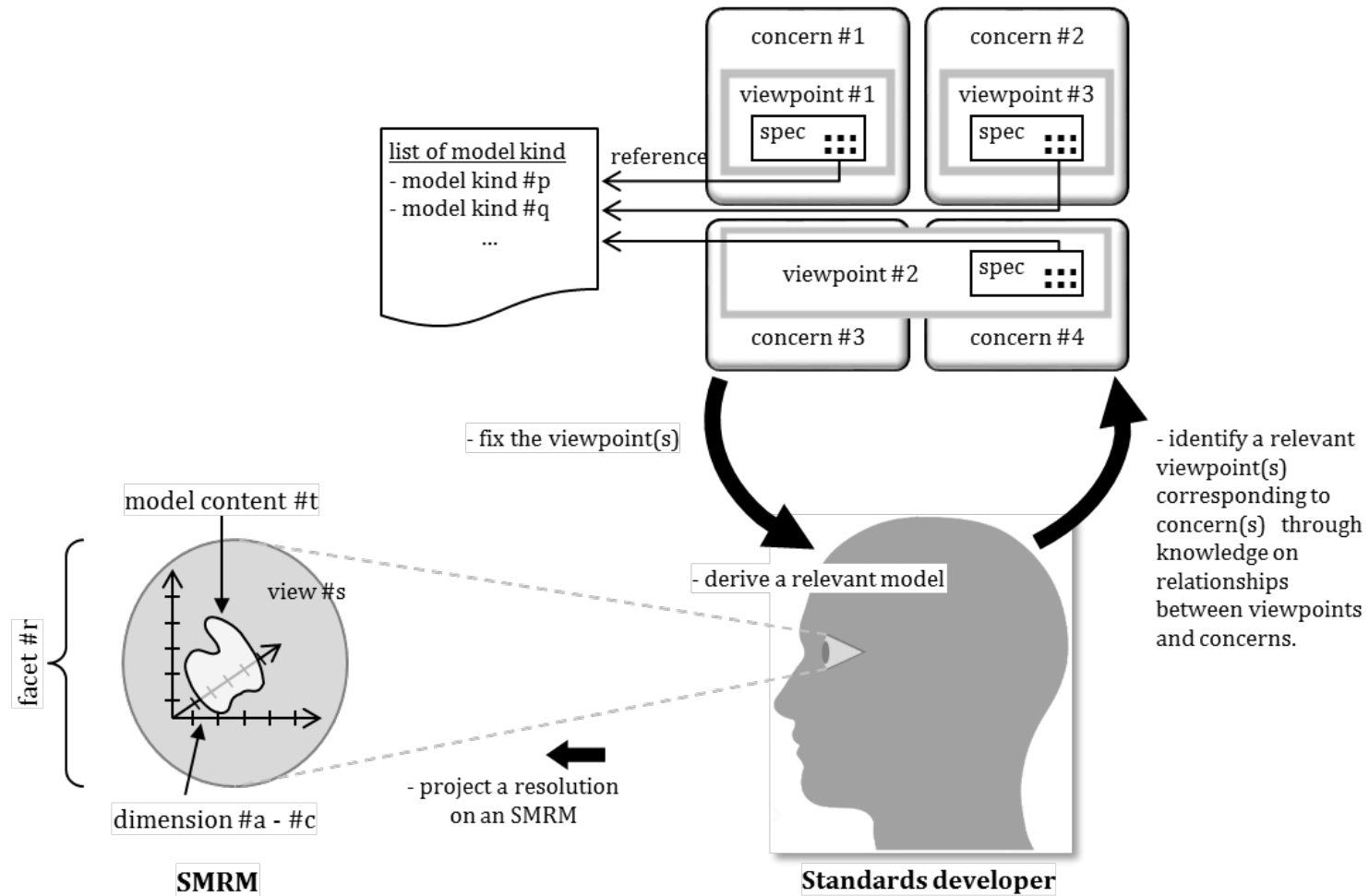
Many ways to think about smart manufacturing



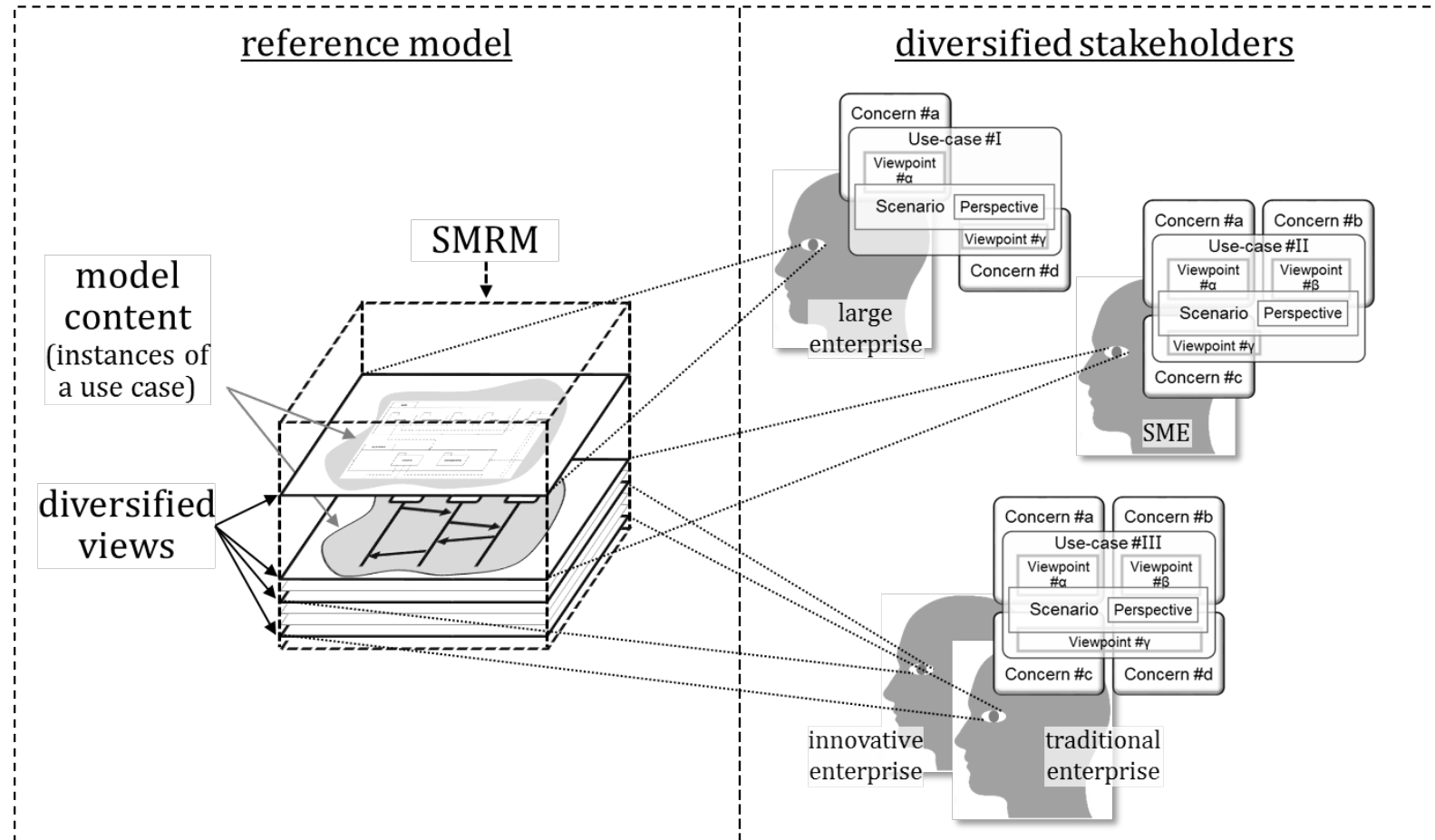
Using URMSM



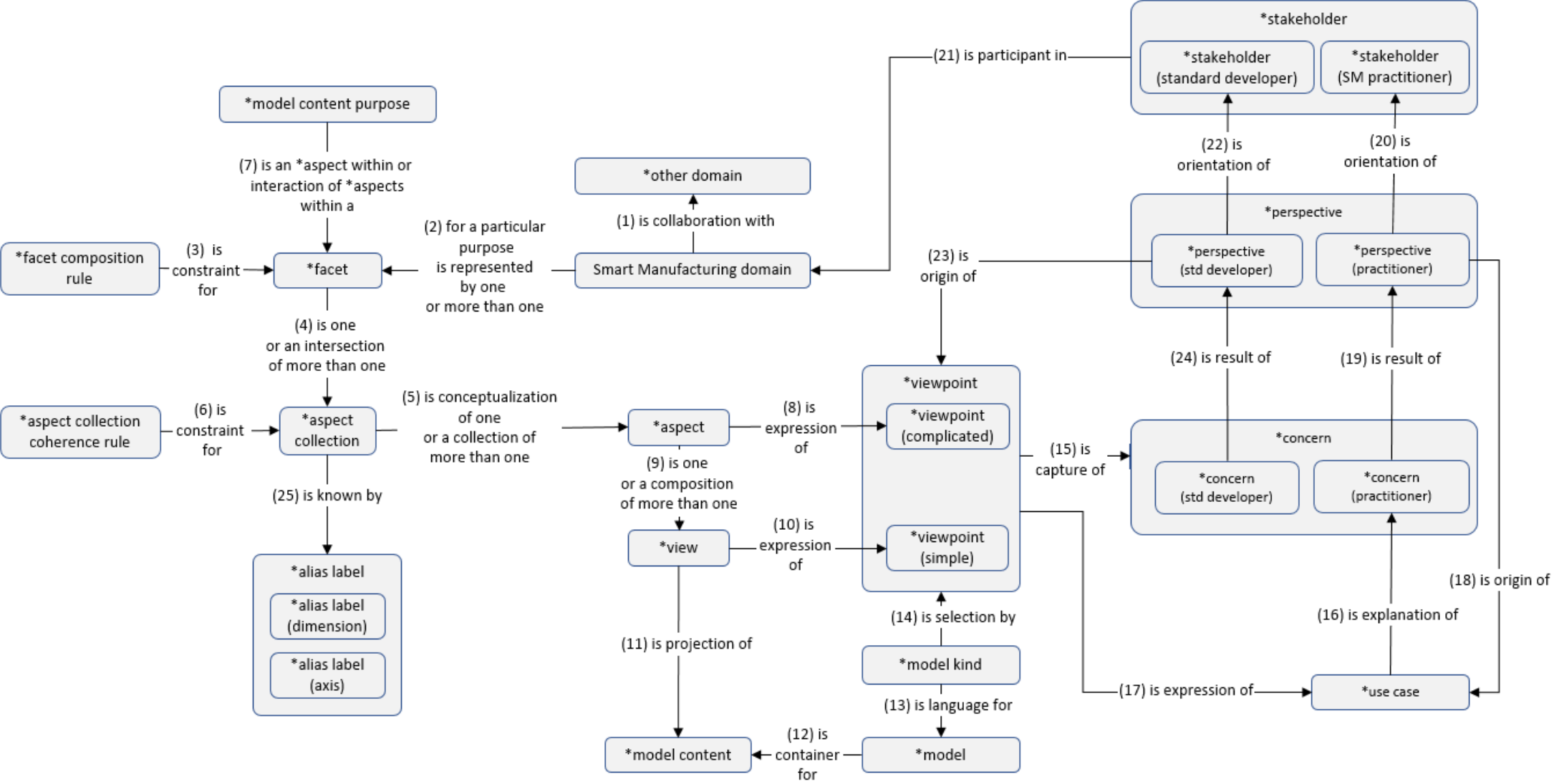
SM standard developer perspective of facet reuse



Diversified smart manufacturing systems expected from different stakeholders



Meta-model used by URMSM



A family of reference models

