

Can exist earlier, in production phase or extended to retirement phase

Not created prior to production as 'physical system' does not yet exist

Each 'digital twin' is updated (in as close to real-time as possible) with measurable operating data from 'physical system'

Data that is unmeasurable in the 'physical system' is then observed in 'digital twin' Primarily used for reliability and safety purposes

You can't try a scenario nobody has yet thought of!

Not possible to measure

Either because Too risky (cost, safety, security, other?)

Too slow in realtime

The result is that failures should appear in 'physicaltwin' before common failures appear in the in-