

### 3.5 Example Domains

Identifying a candidate domain:

- pick anything that might be useful to have as a product;
- generalize to all possible forms/capabilities of such a product;
- create means to describe/select and obtain best-fit-to-needs product from that set.

Examples exhibit broad variety in scale and scope. Key determinant is need to build similar products requiring customized features. In some instances, for a single customer or when potential customers constitute a simple market, a custom or singular product may suffice.

#### *Domains for a set of similar products*

(several categories of usual idea of end-user hdw-sw products)

{tax filing product: customized to country/state/locality}

{chemical/nuclear process control systems, flight control systems}

{personal healthcare management product}

{logistics/shipping system management, manuf parts supply chain mgmt}

#### *Domains for the simulated or enhanced reality training of users*

{operators of vehicle with complex controls (aircraft, train, spacecraft)}

{operators of complex control system (power plant, air traffic control, distributed communications network, satellite)}

{complex equipment maintainers}

#### *Domains for operational environment simulators*

(customized safe env for realistically testing any product) (or real/simul hybrid)

*Domains for sensor-effector device emulators/constructor*

(example of hdw / sw codesign)

{autonomous vehicle monitoring / control components, environmental sensors, chemical process monitoring / equilibrium}

*Domains for testing infrastructure*

(incl scenarios)

*Domain for DsE environments (whole or partial)*