

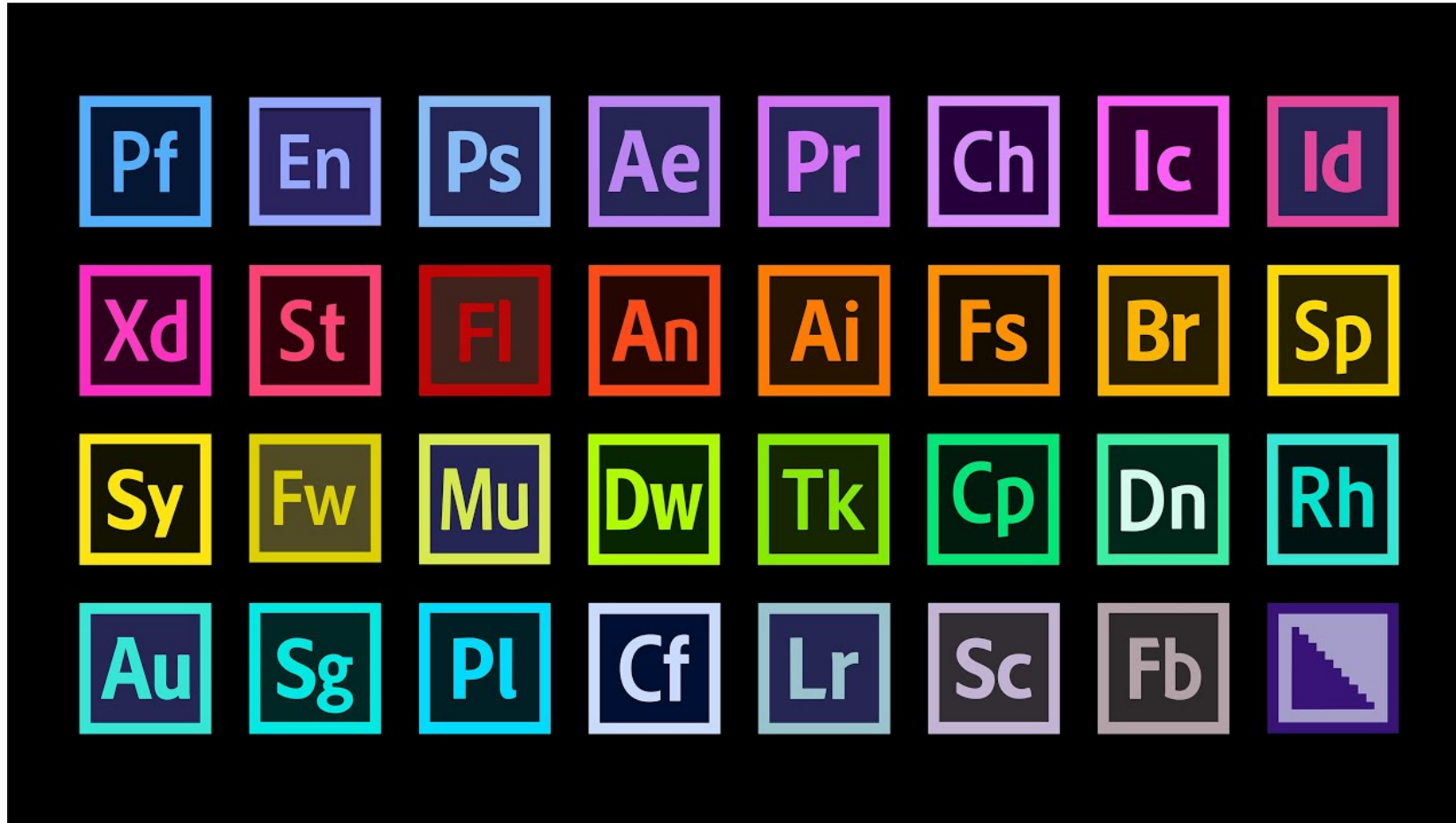
# Software Product Portfolios

## Software Evolution – L2T3

Dr. Vadim Zaytsev aka @grammarware, February 2021

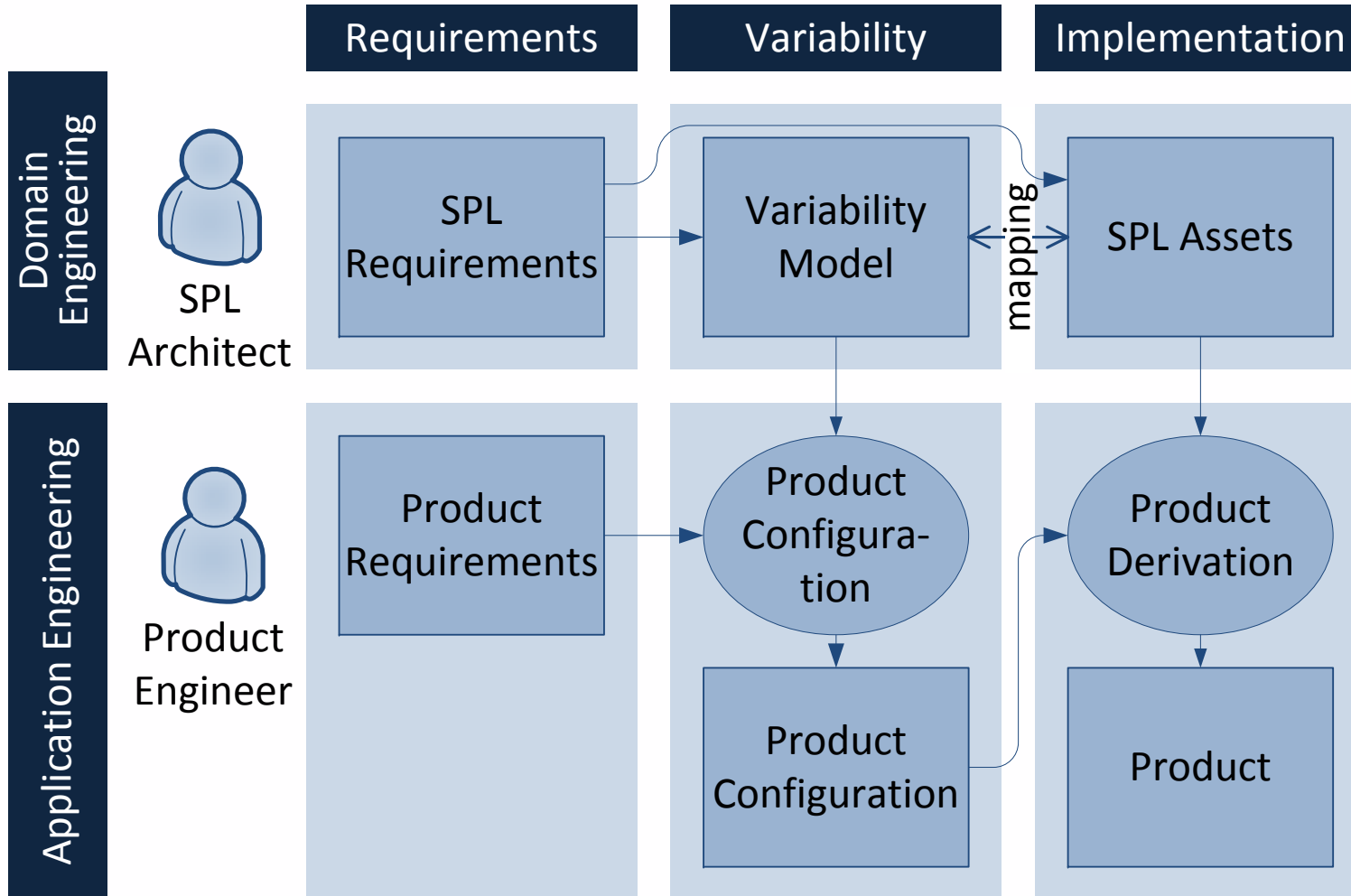


# Software Product Family



called "product line" in marketing

# Software Product Line



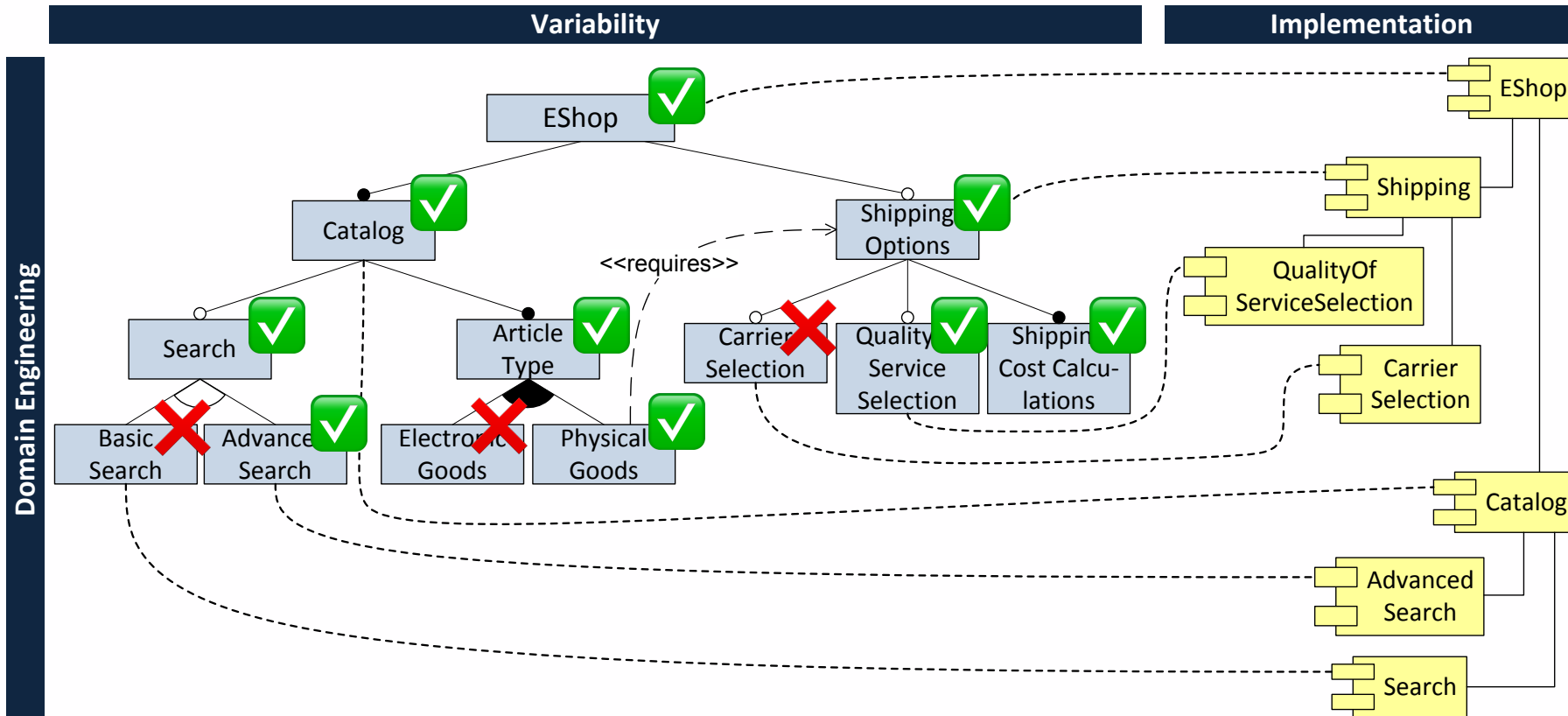
# Software Product Line Evolution

- Specifics
  - Longer life span
  - Larger size and complexity
  - More interdependencies
- Assets
  - Common
  - Variable
  - Specific

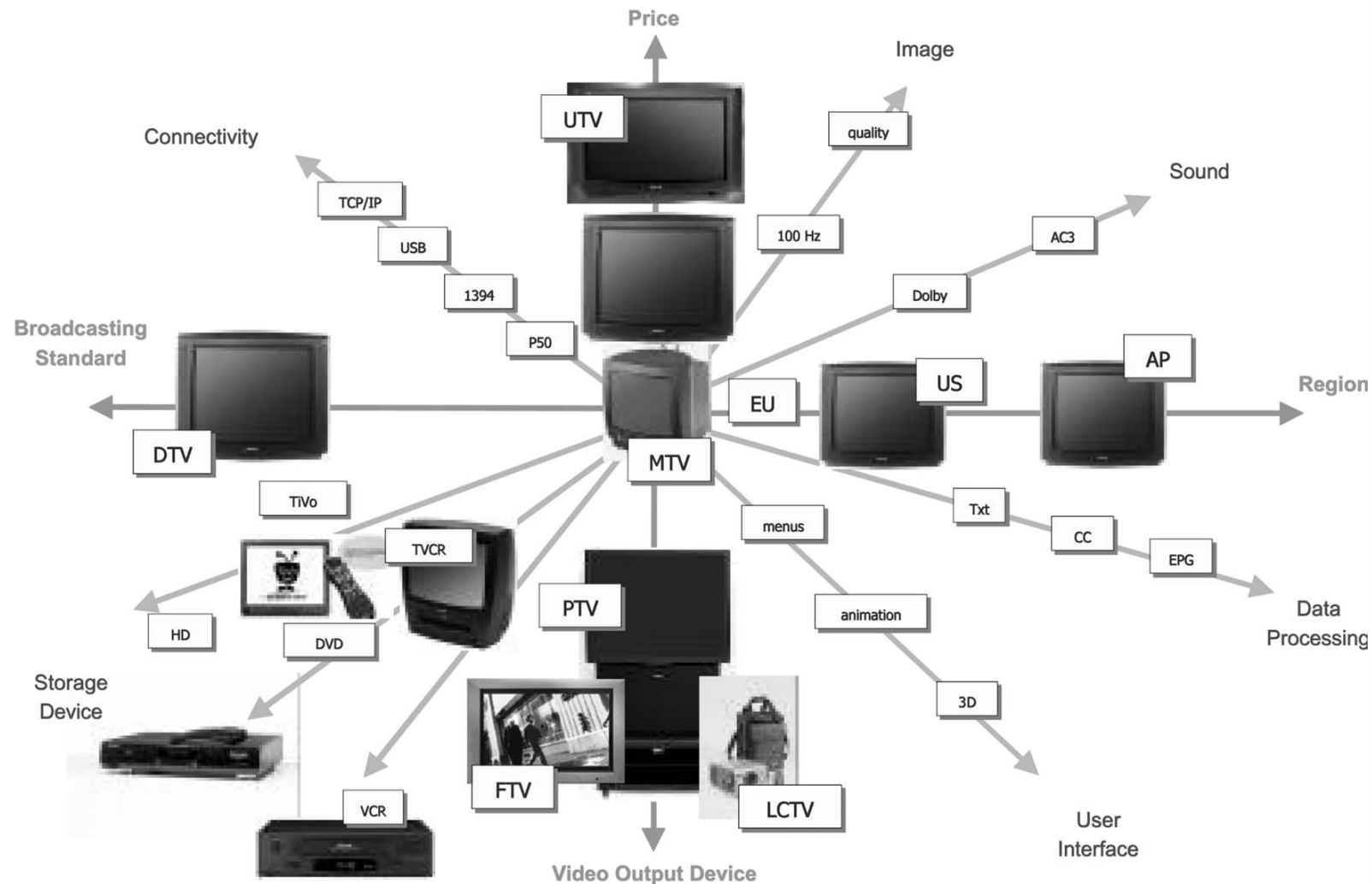
# Feature Models

- A feature is
  - a distinguishable **characteristic**
  - of a **concept**
  - relevant to some **stakeholder**
- Drawn as a tree
  - or-groups, xor-groups
  - requires, excludes

# Feature Model



# Software Product Populations



# Conclusion

- Domain engineering  $\leftrightarrow$  application engineering
  - product configuration  $\Rightarrow$  derivation
- SPLs evolve on **3** levels:
  - add/delete/modify single assets (common/variable/specific)
  - add products (beware the feature interactions!)
  - add/delete SPL; split/merge SPLs
- Q&A Sessions @ Canvas
  - $\Rightarrow$  [v.zaytsev@utwente.nl](mailto:v.zaytsev@utwente.nl)
  - $\Rightarrow$  <https://discord.gg/n7VQAPNBPD>