D&E

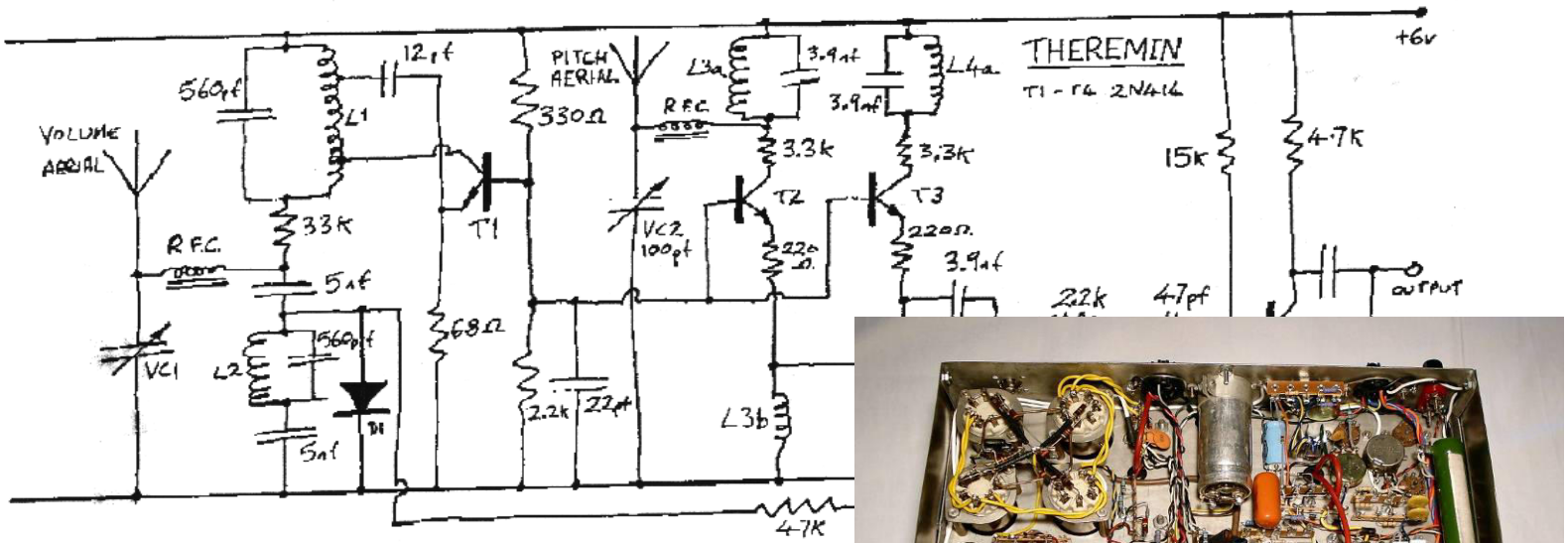
Hoe wordt uw leven als System Engineer eenvoudiger ?

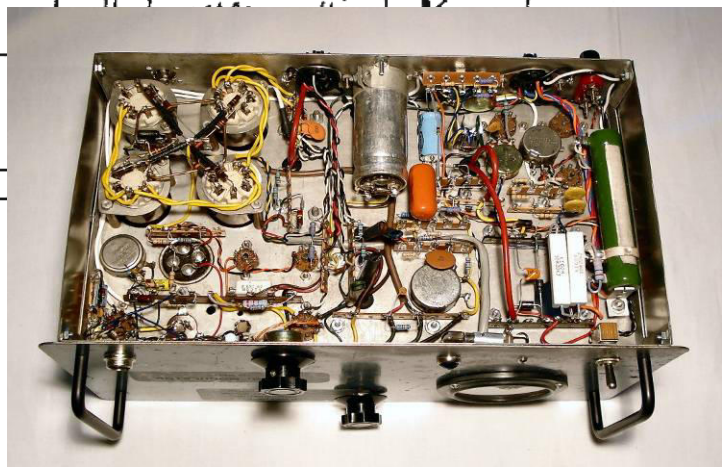
Ruben Smits
Transfer BV

Lets meet…

- Joe Designer
- Electronic engineer for a medium sized company

Where it all begins…

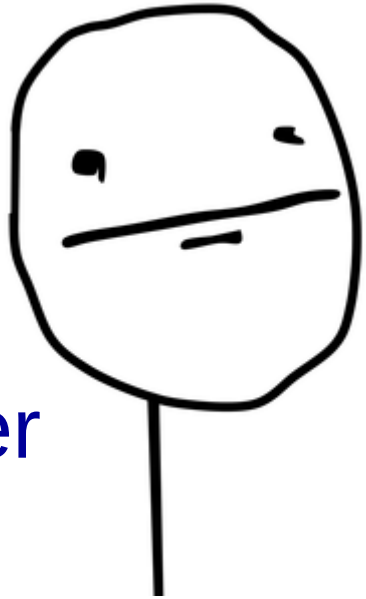




But there is more…

- MCAD Engineer

- Database Manager



- Purchase Manager

- Test Engineer

- Repair Engineer

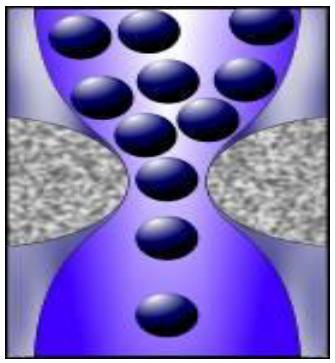
Typical Organizational Pain Points…

Time To Revenue

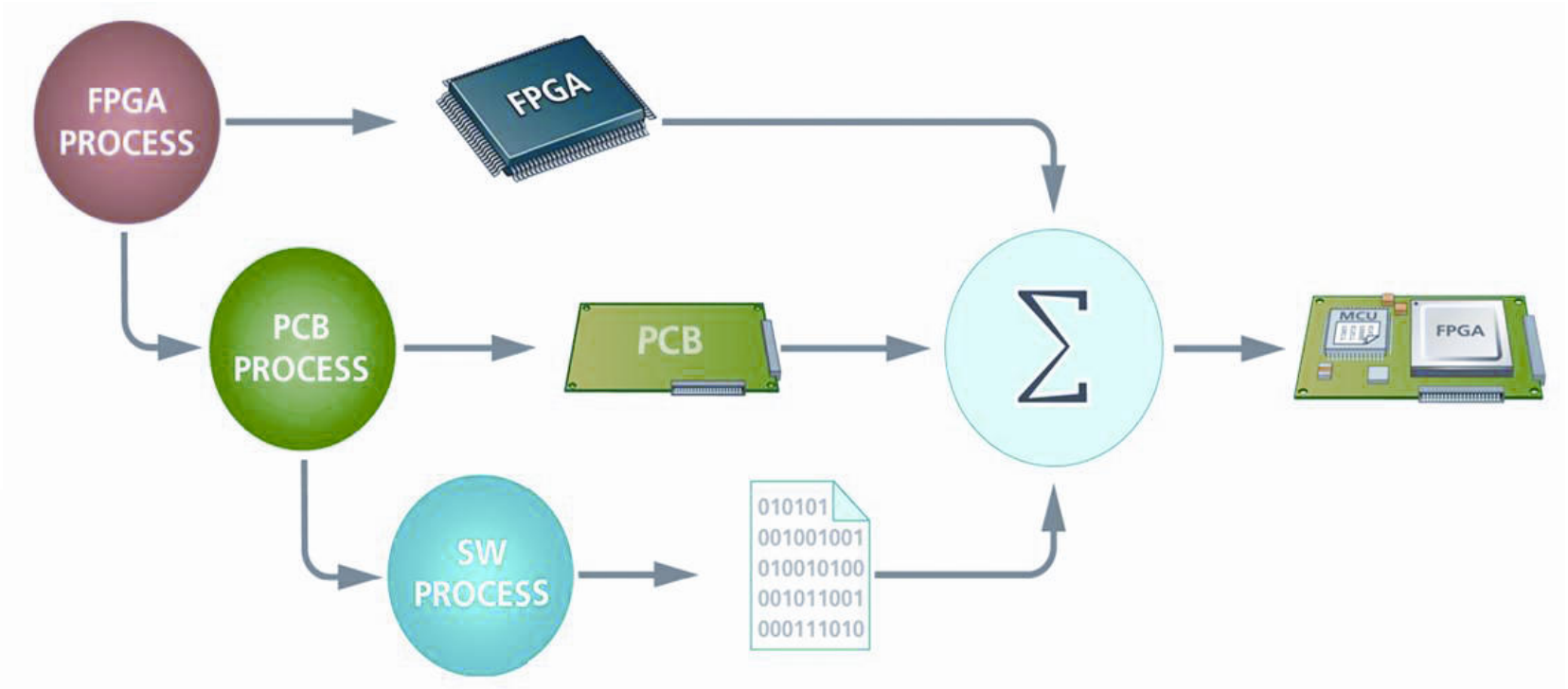
Collaboration

Differentiation

Process Bottleneck



What needs to be designed?



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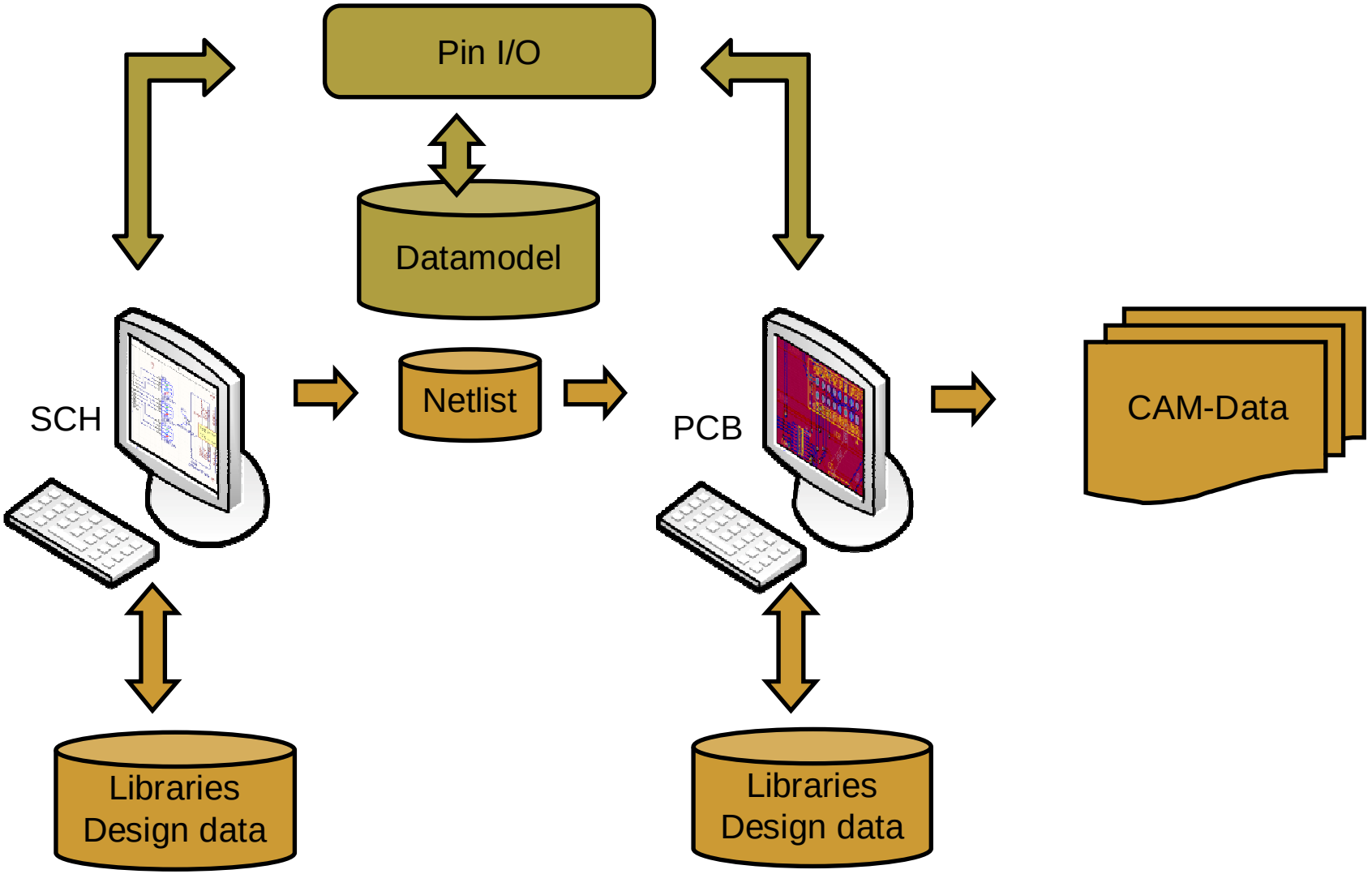
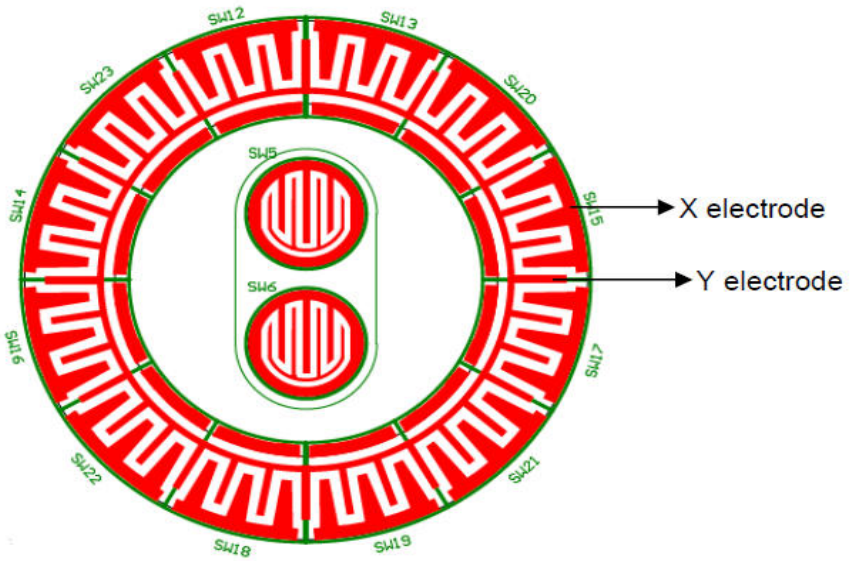
Additional tools for communication



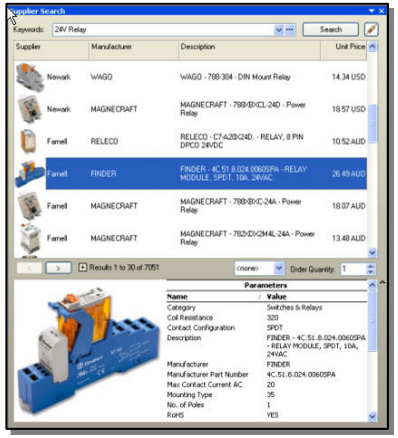
Designing Capacitive Touch Footprints

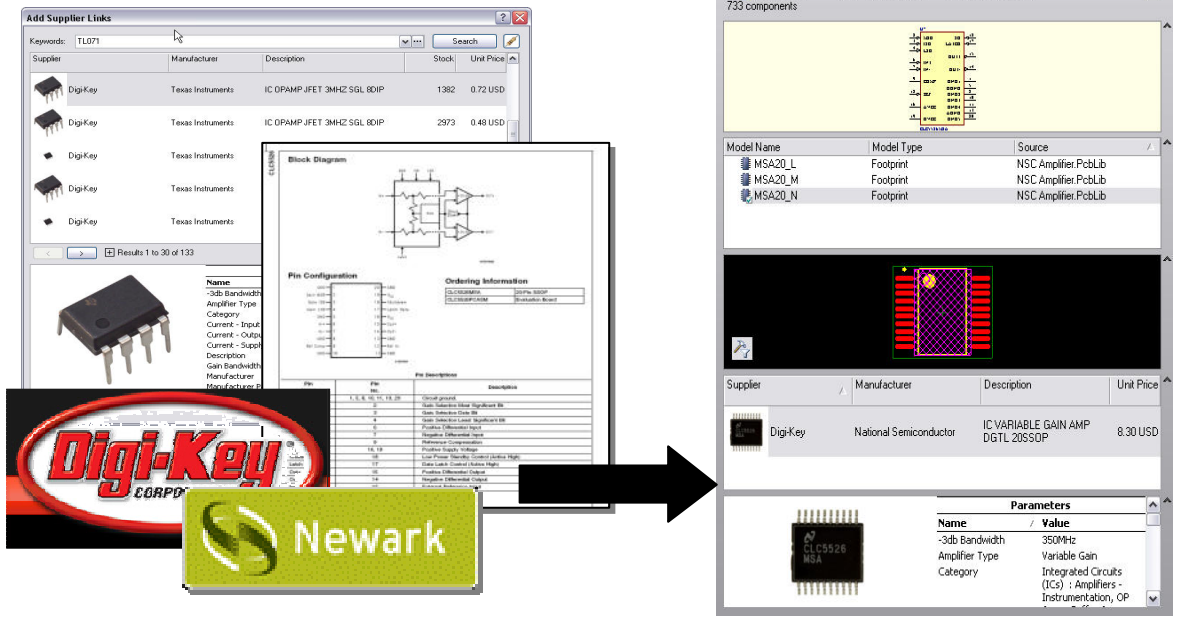
- Traditionally, any changes on this complex footprint will cause a complete redesign.



Component & Library Management

- Component starter library
- Component information link to Newark & Digi-Key
- Component versioning
- IPC Footprint wizard
- 3D STEP models

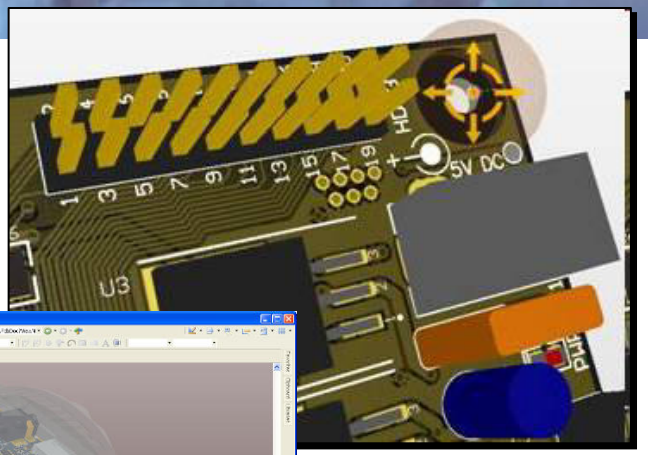


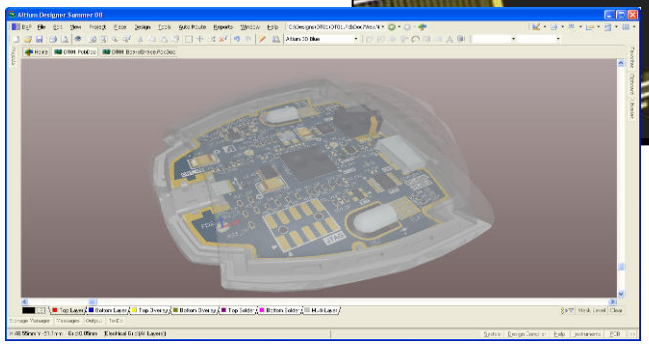


90% of board cost is determined by the component selection!
Is your library easily managed and replicated?
Are you considering ECAD / MCAD 3D fit checks?

ECAD / MCAD 3D Integration

- 3D PCB layout environment
  - Dynamic 3D
  - Critical Part 3D Placement
- Full STEP model support
- Basic 3D model creation
  - Extrusion
- MCAD tool support
  - PTC
  - Solidworks
- MCAD clearance checking
- Full assembly STEP export





PTC

SolidWorks

Have you had PCB fit problems?
Does your system support the STEP standard?
How do you do ECAD/MCAD fit checks today?

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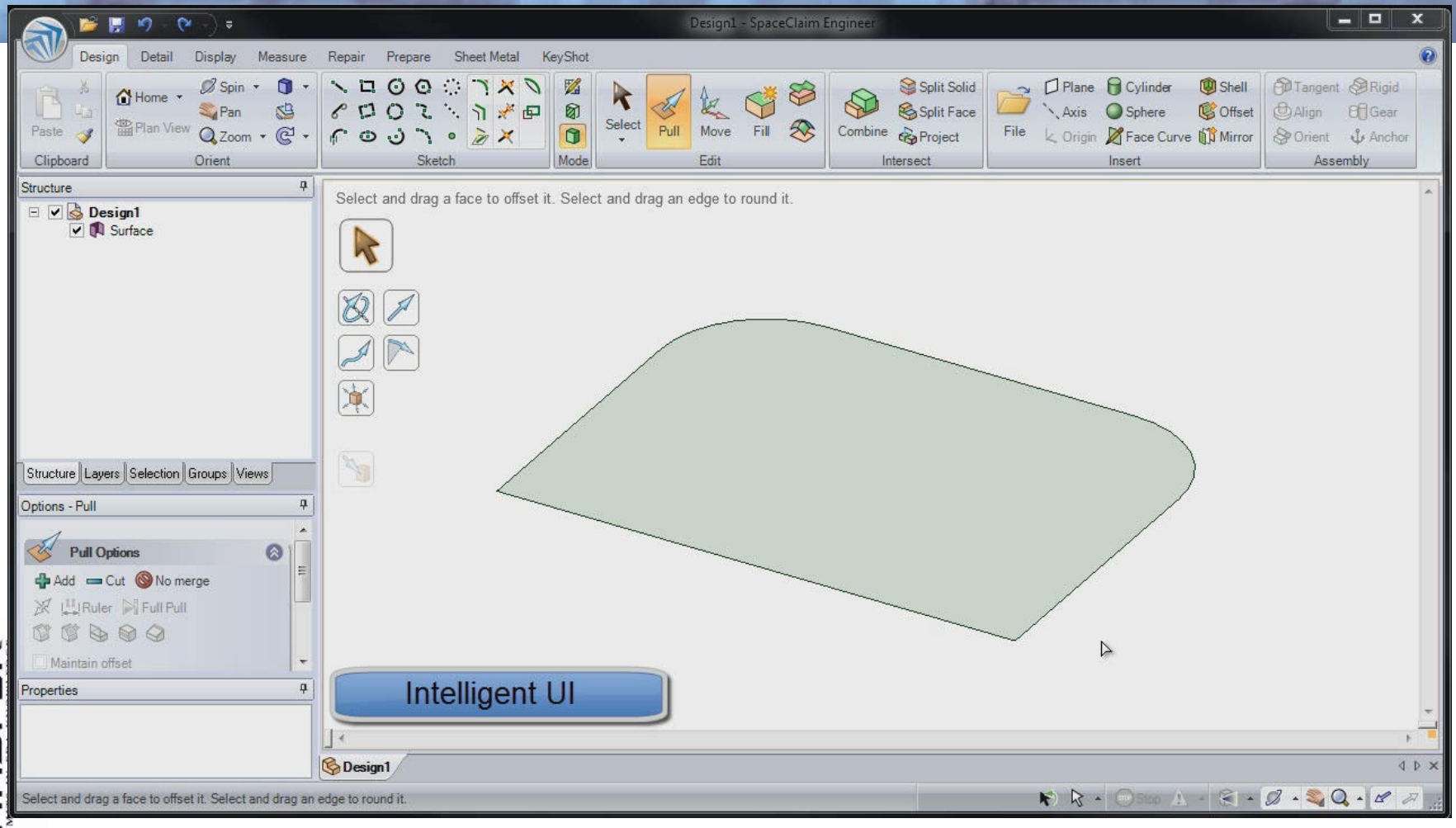
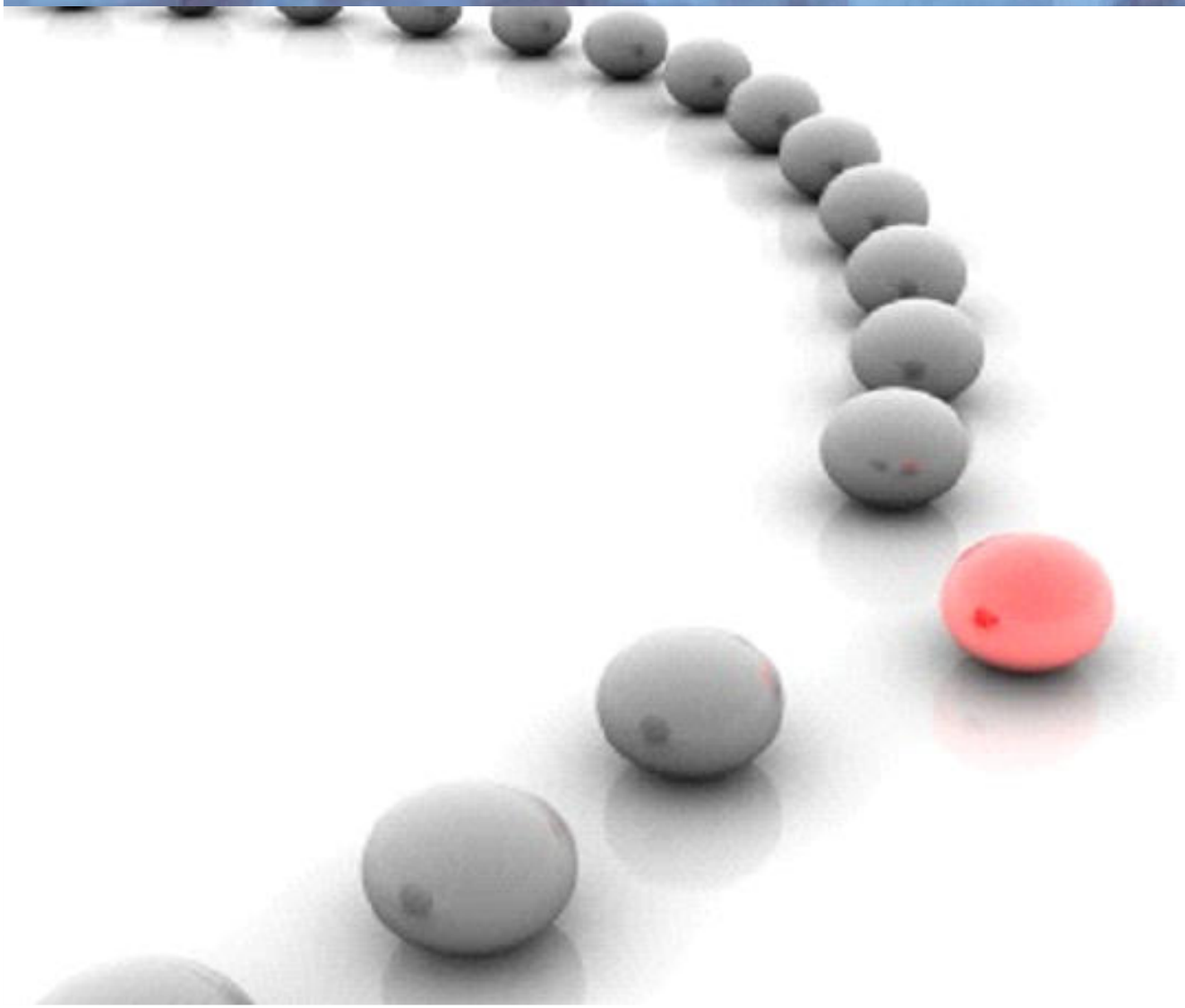
MCAD Made Easy…



Concentrate on your Secret Sauce



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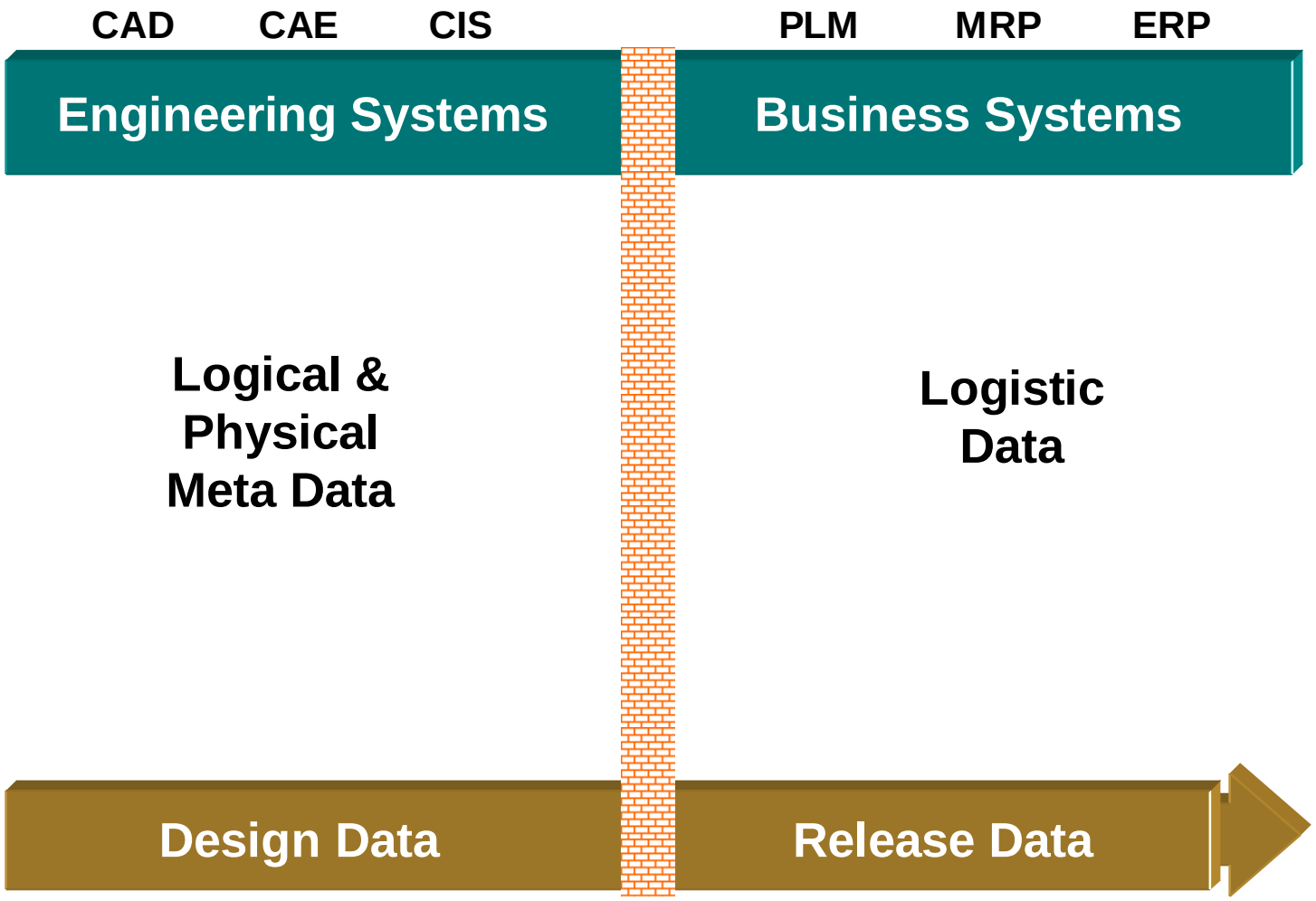
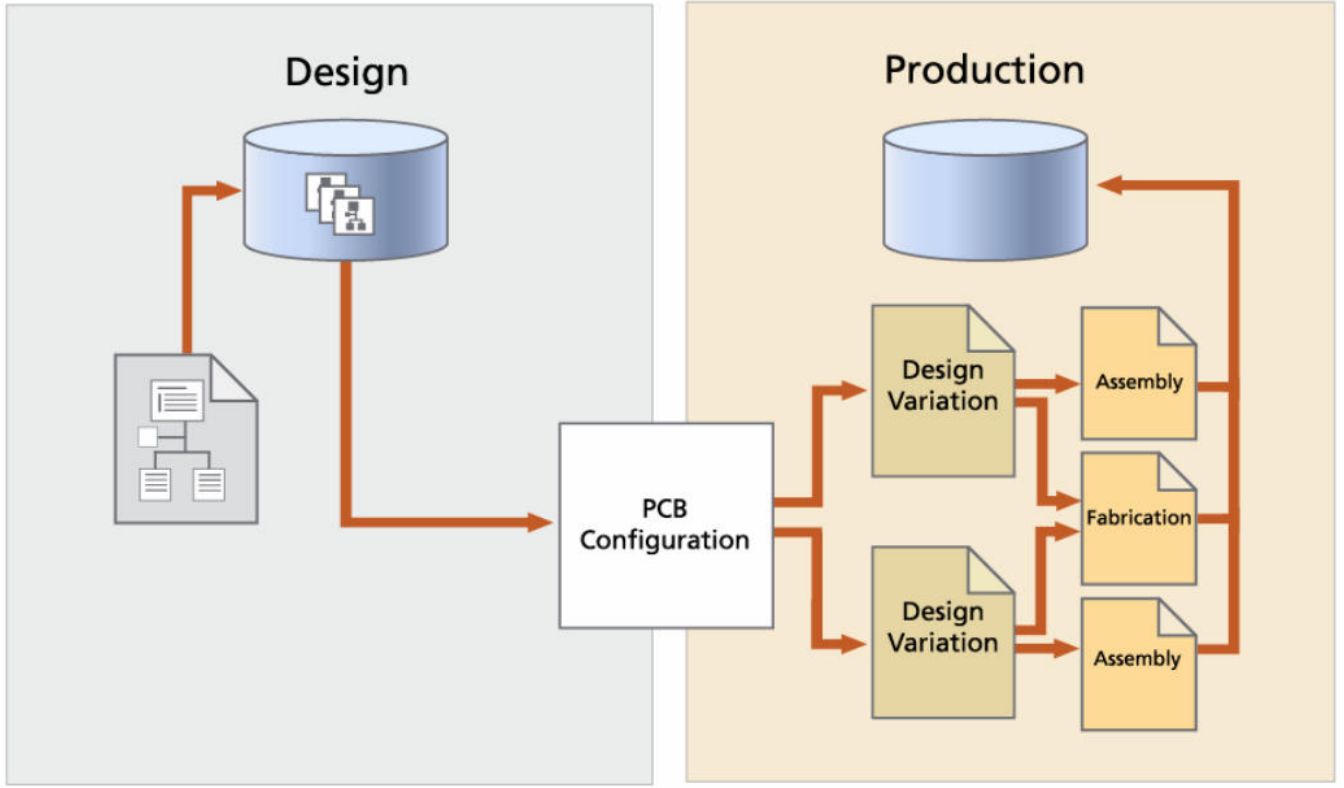
SOFTWARE

Positioning E-CAD

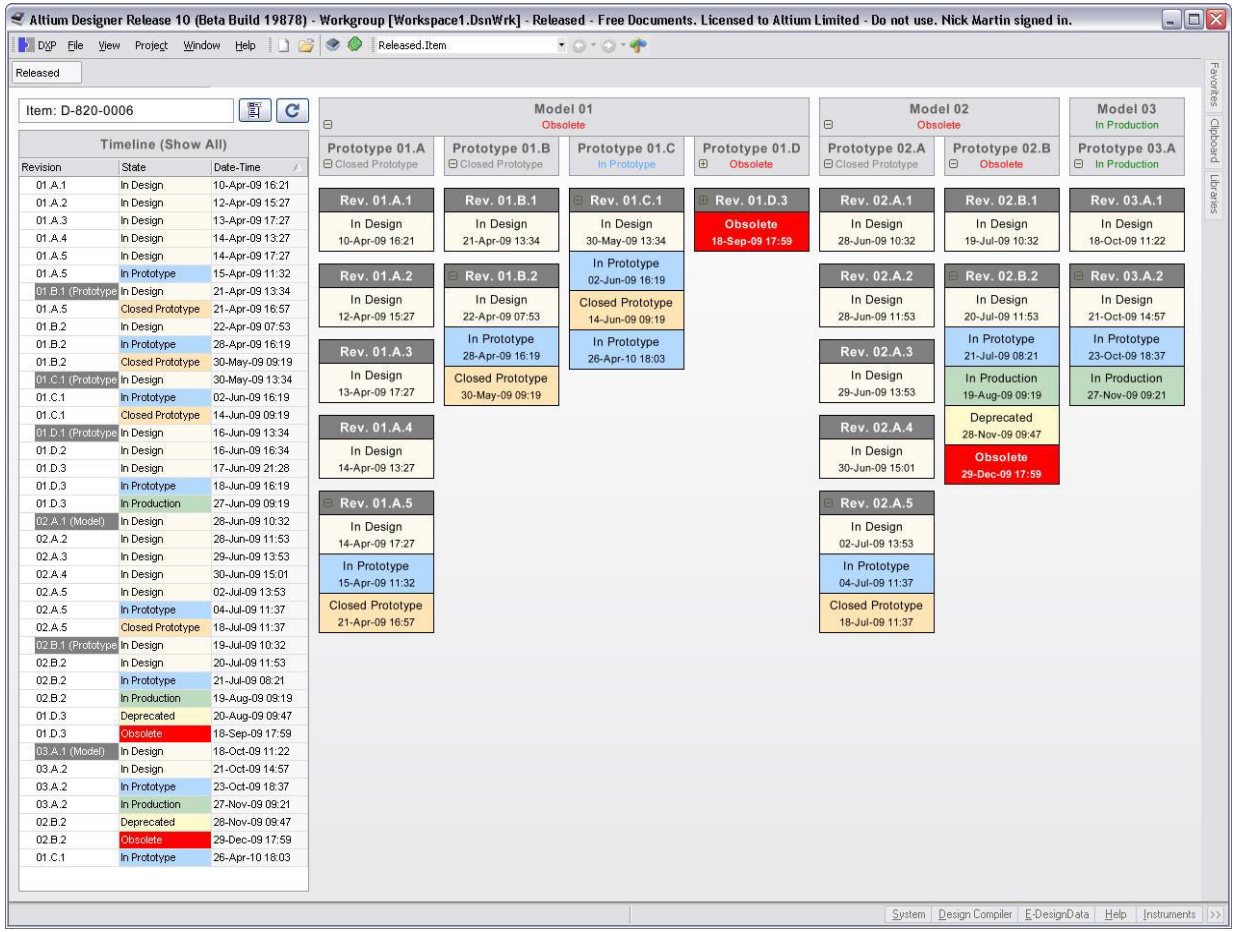


Release To Production

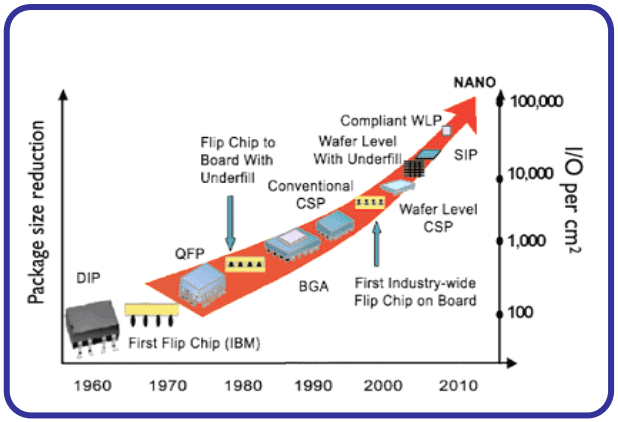


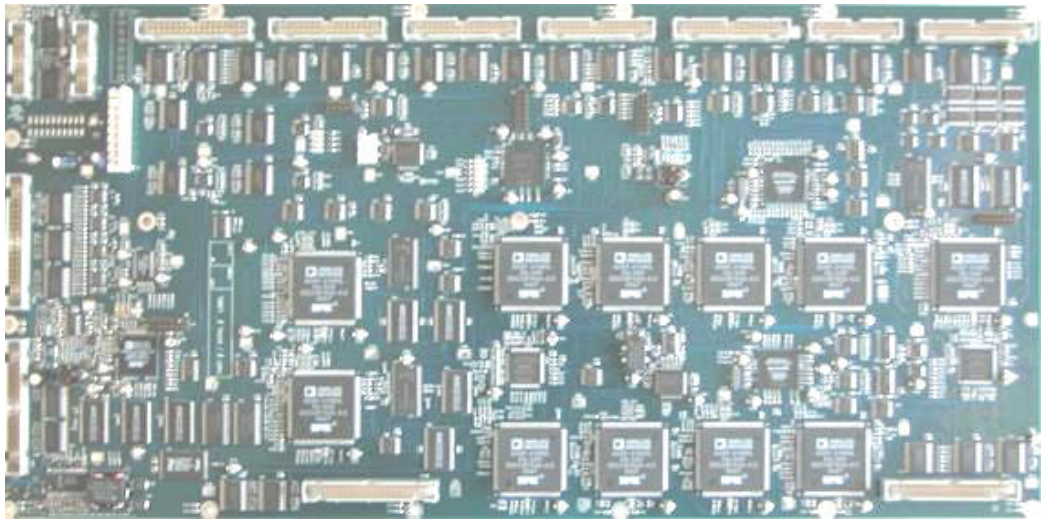
Project Release Management

- When a particular configuration for a project is released, a snapshot of the design source is taken, validated and archived along with any generated output



Design Testability





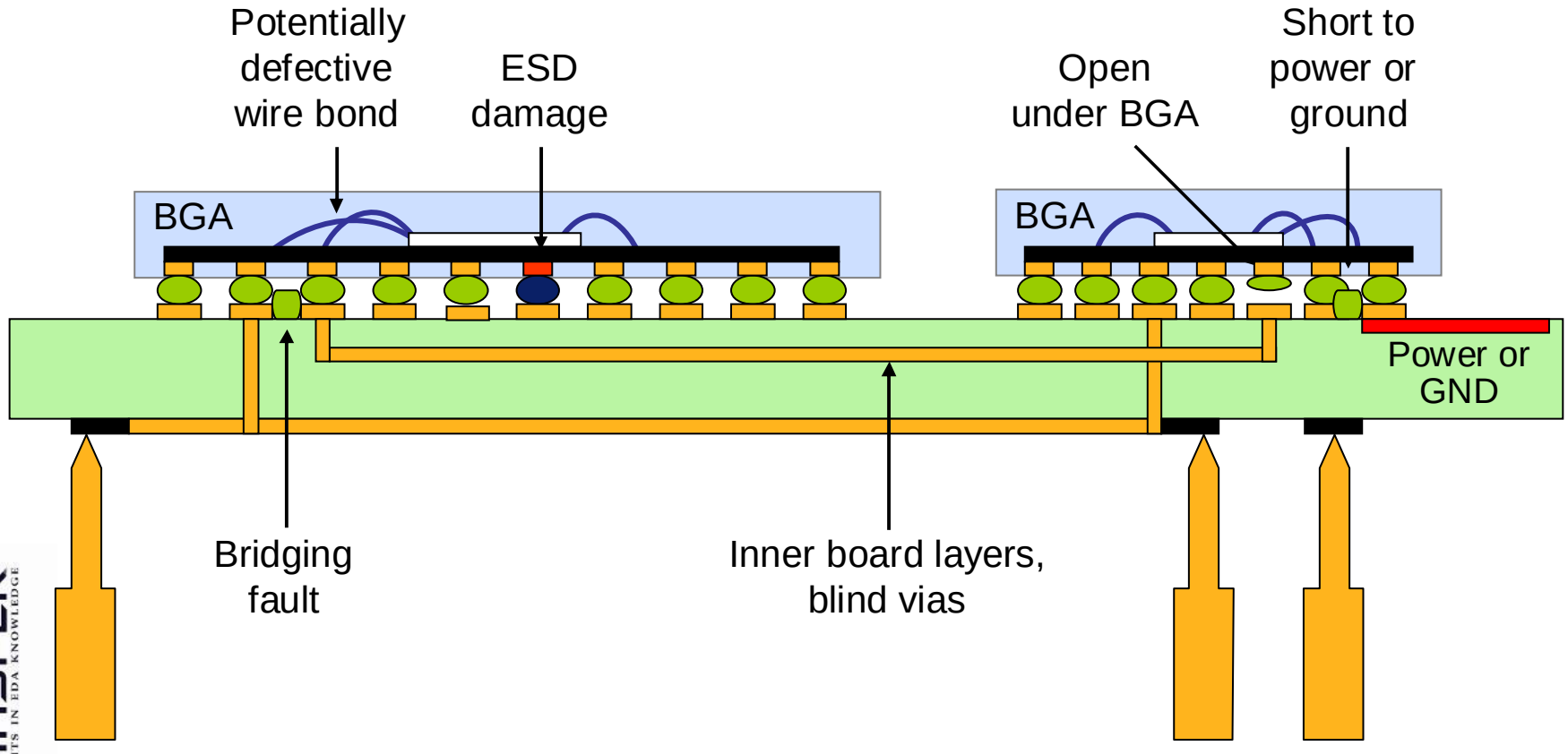
Find the failures before your customers do!

More than 90% of the PCBs produced will contain at least one structural fault

Ref: Charles Robinson and Amit Verma, Teradyne Inc., APEX 2002

Design Testability

In-circuit testing will have difficulty finding these types of faults



The traditional approach…

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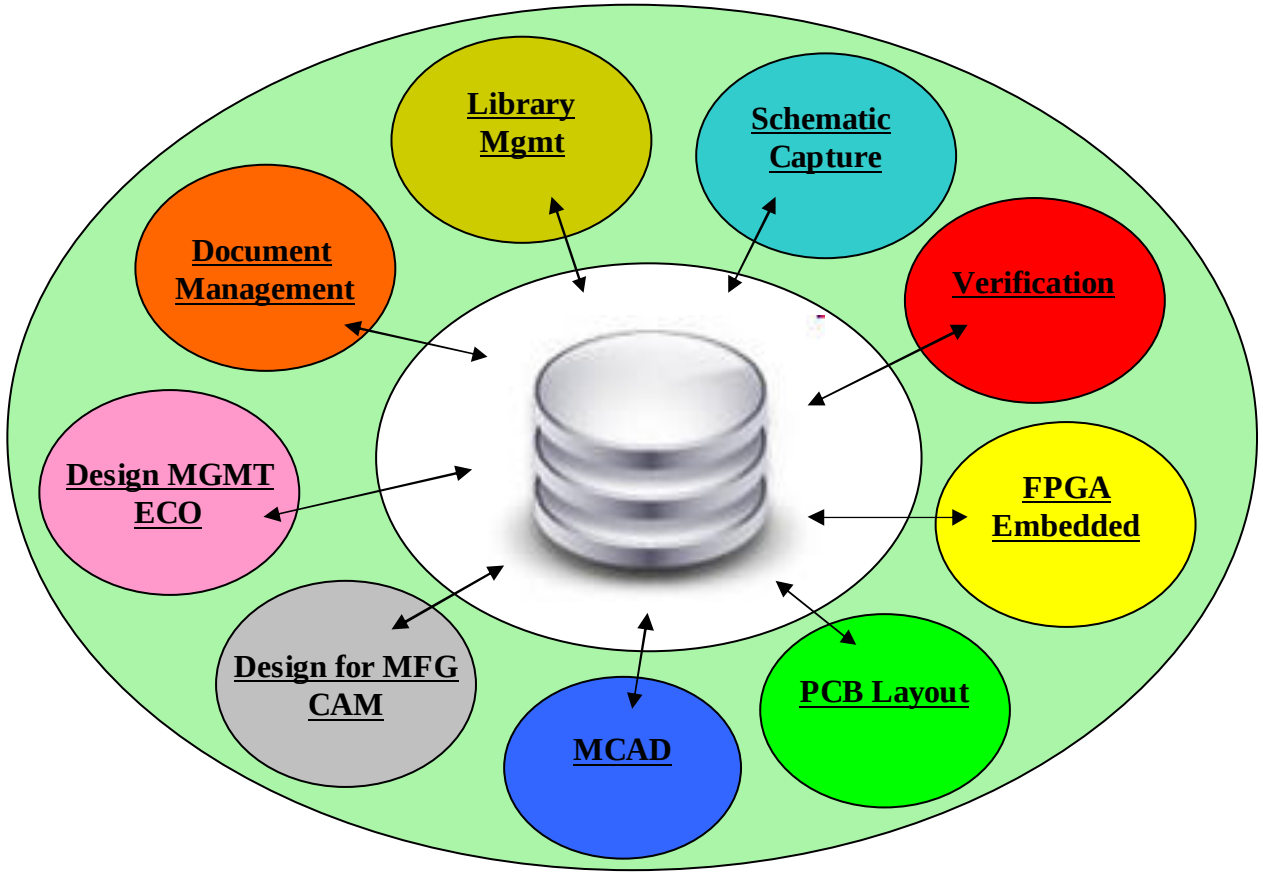
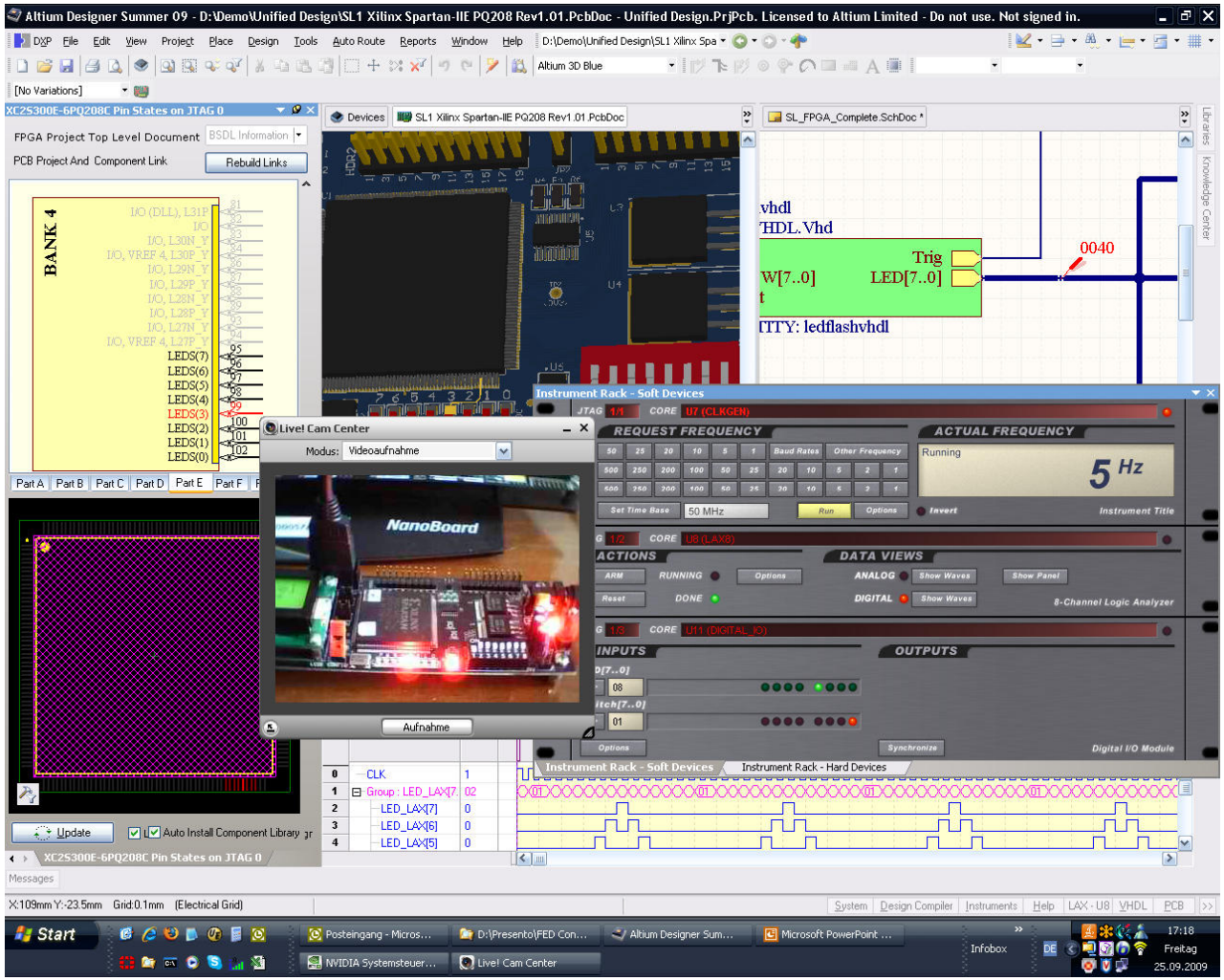
ONE single Data Model



Unified Design



Thank You!

- Questions?