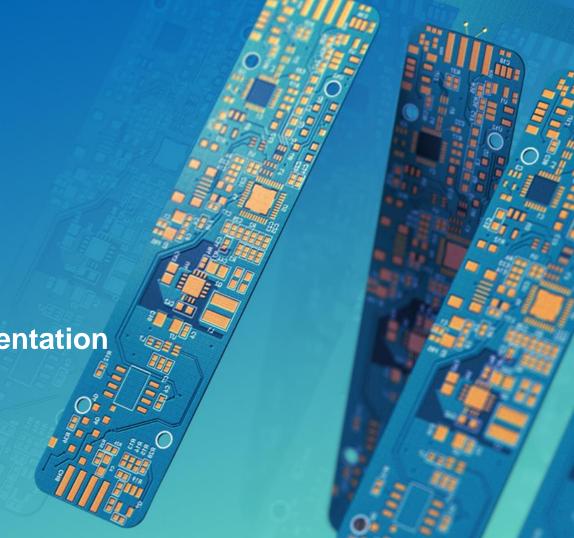
Altıum.

Building EDA Eco-System 构建统一EDA生态系统

**Altium Technology Presentation** 

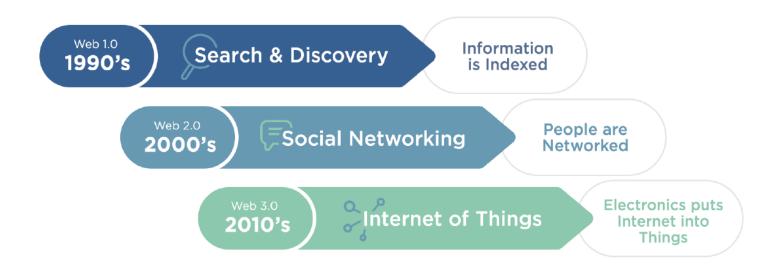
March 2017 Shanghai



Altium. Agenda Innovation in the age of IoT Altium Vision – Building EDA Eco-System 345,7475

#### The Web and the Waves of Innovation...





The three waves form the three axes of innovation around which all future products will pivot

## Innovation in the Age of Internet of Things





Modelling, digitalizing and integrating all objects and processes associated with the creation, adoption & evolution of smart products is critical for **increasing the speed of innovation** 

## The Multi-Disciplinary Challenges of Innovation





Outdated practices related to electronic design are at the heart of multi-disciplinary challenges in designing smart products



#### Cloud System

Cloud application development and Infrastructure management



Development of Control Systems in Electromechanical devices



#### **Electronics**

Creation of high-performance electronic hardware with complex form factor



#### Mechanical

Designing complex objects with sophisticated electromechanical behaviour

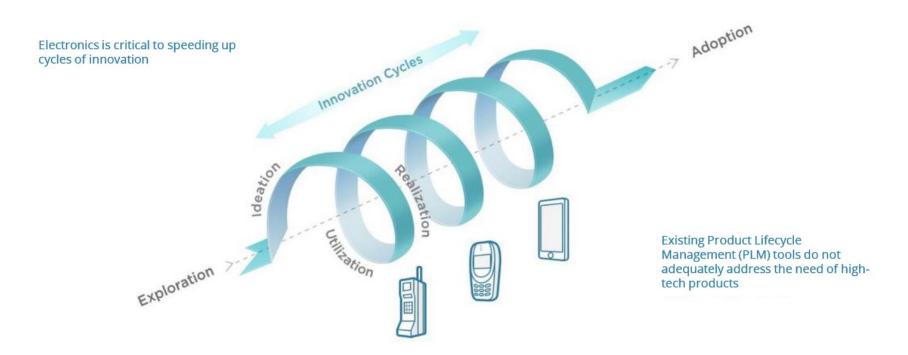


#### **Electrical Wiring**

Development of wire harness and electrical systems in Electromechanical devices

## **Speed up the Pace of Innovation**



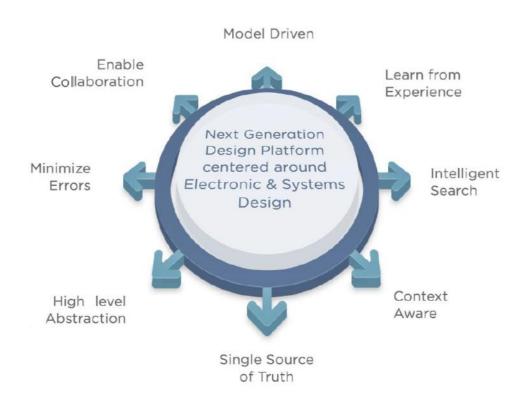


Success depends on the ability of the enterprise to move through innovation cycles faster than its competitors

#### **Smart Product Need Smart Tool**

Altıum

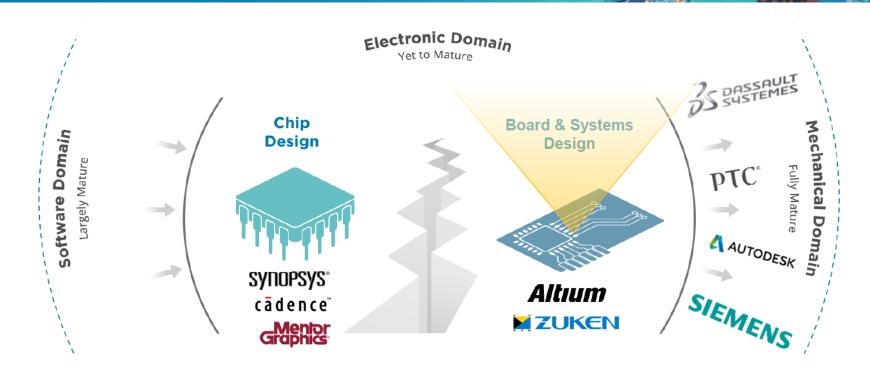
Current generation of CAD tools come from drafting background. This limits their level of smartness



Engineering tools need to coalesce and operate at higher level of abstraction

## Innovation in the Age of Internet of Things

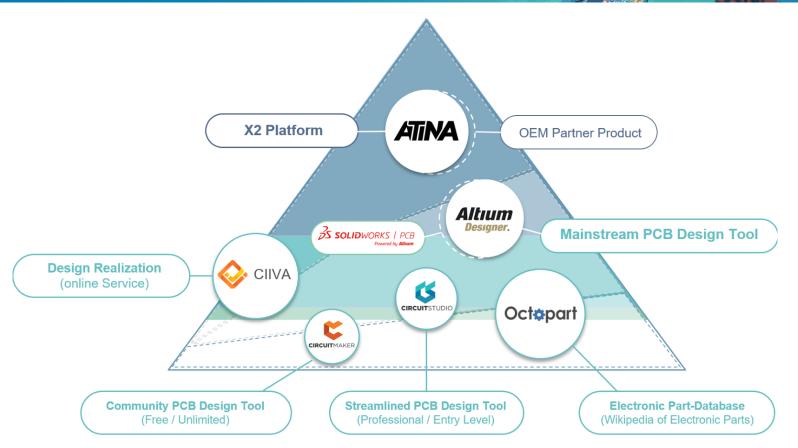




The rise of smart connected devices is driving a deep transformation in the EDA industry with the Board & Systems Design going mainstream while Chip Design is becoming highly specialized

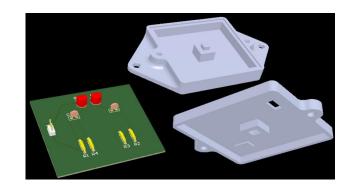
# **Enabling Innovation in Different Segments of the Market**

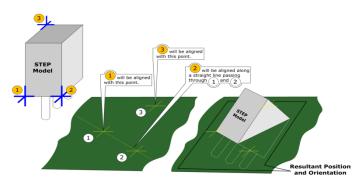


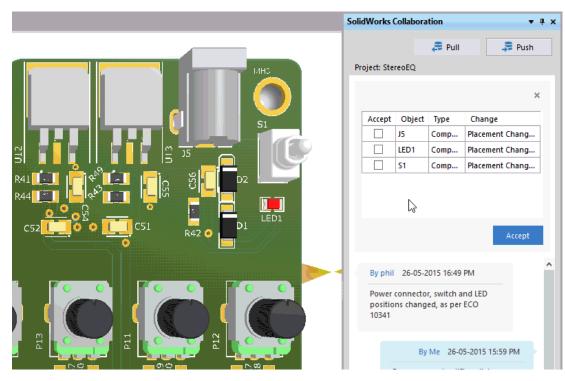


#### **ECAD – MCAD Collaboration**













## ATINA – Altium's High-End PCB Design Tool

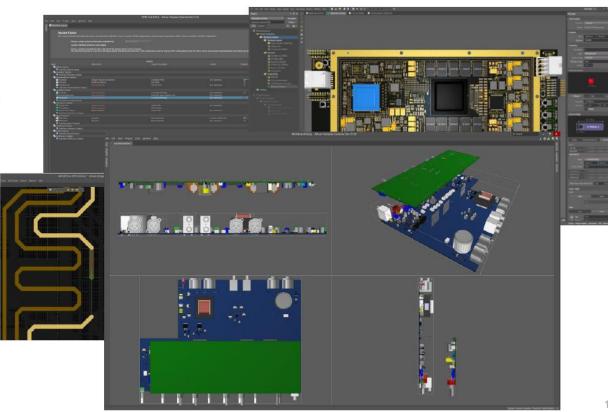


#### **ATINA**

- Multi-board System Design Capability
- Advanced Routing Capability
- Constraint-Driven Design
- Handling Large Boards with Ease

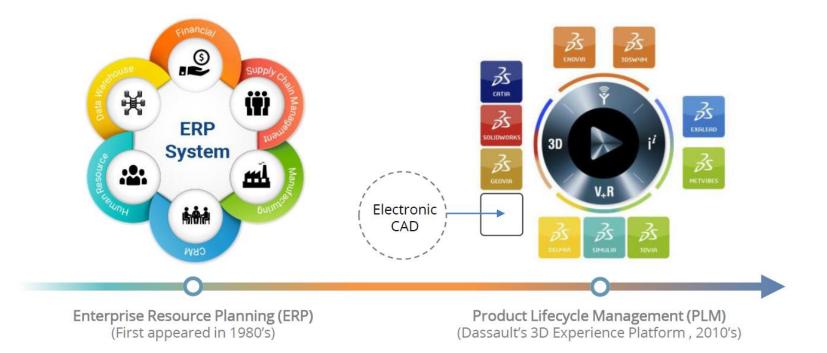
#### X2 Platform

- Next Generation 3D Graphics Engine
- State-of-the-art User Interface/Experience
- 64-bit Computing Architecture



### **Enabling Innovation in the Enterprise Segment**

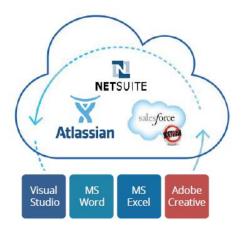


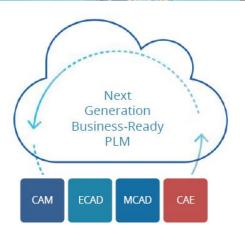


To speed up innovation in the enterprise segment, Electronic CAD and Product Lifecycle Management (PLM) must come together

## **Enabling Innovation in the Mainstream Segment**







Commoditization of Business (Data & Process Management) Software through Cloud (Cloud-based services appeared in 2000's)

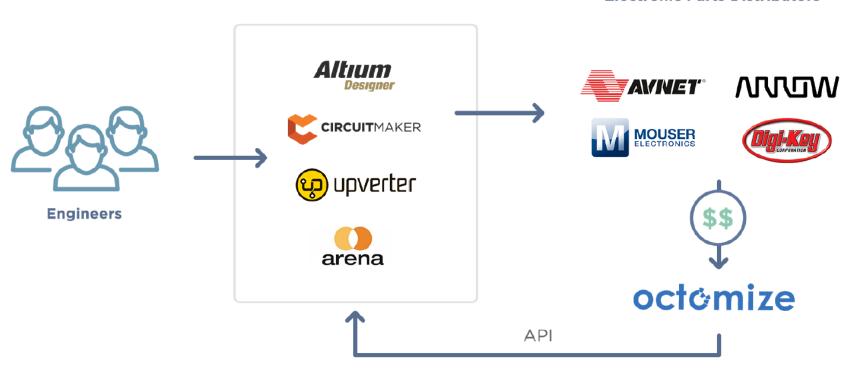
Commoditization of Engineering (Data & Process Management) Software through Cloud (Cloud-based services expected to gain traction in 2020's)

Mainstream evolution will eventually mirror the high-end with the enterprise engineering software evolving from the current delivery model

## **Supply Chain Integration: Octopart & CIIVA**

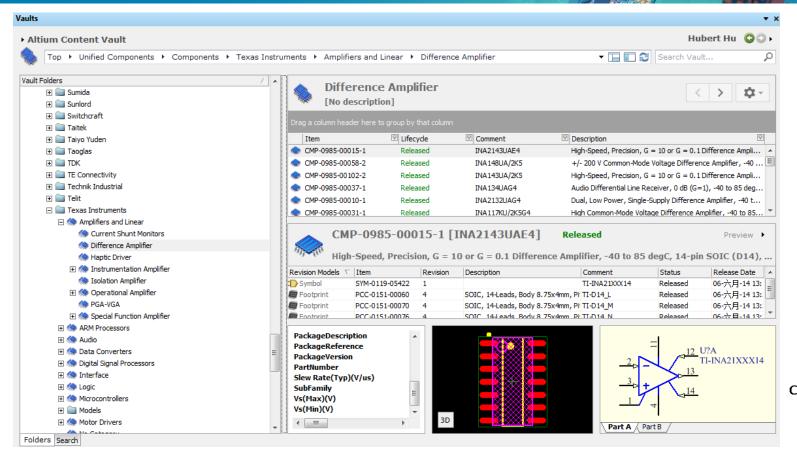


#### **Electronic Parts Distributors**



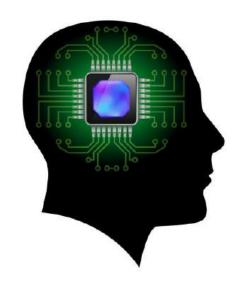
### **Altium Content Vault: 300,000+ Free Component**





# At the Heart of All Intelligent System is Electronics







Printed Circuit Boards Central to Electronics

