

Graser User Group 16 October 2015



Design customers need solutions for product creation – it's not just the PCB





Product Creation: Design and Supply Chain and the Role of Design Software

Component selection and bill of materials connect the design chain to the supply and manufacturing Component Data Distributors Direct Supply Chain and IC Mfa Distribution Supply Chain \$600B¹ End user electronics market IC Design PCB & IC Packaging Design • Manufacturing Electronic (CM / EMS / ODM) Mechanical Design **Assembly** \$440B¹ Software Tool **Environment**

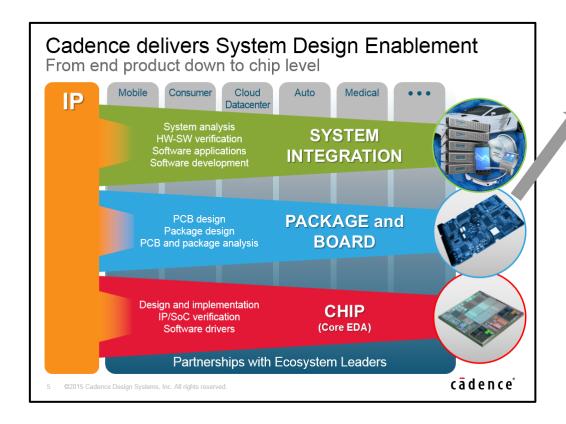
- 1- Research and Markets, Worldwide Electronics Manufacturing Services Market 2014 Edition
- 2- CIMdata 2015 Market Analysis Report Series Executive PLM Market Report



\$38B²

Cadence PCB and Sigrity

Product Creation → System Design Enablement



PCB design to product design

- Logical/pinysical decign analysis
- Supply chain integration
- Electronic data management
- Manufacturing integration
 Cabling and Wire Harness

Transformative Change

Product design

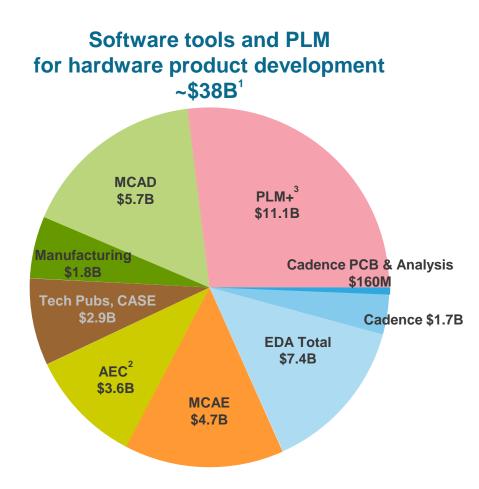
- \$38B TAM (6.1% CAGR to 2019) 1
- Electronic design is at the beginning of product creation with ICs & PCBs

1 - CIMdata 2015 Market Analysis Report Series Executive PLM Market Report



PCB and Analysis as part of design tool ecosystem Small, integral part of a very large ecosystem

- PCB, IC Packaging and Analysis interdependencies:
 - ✓ EDA for IC design and IC packaging
 - ✓ MCAD and MCAE analysis for enclosure design and integration
 - ✓ Manufacturing integration
 - ✓ Cable and Wire Harness design
 - ✓ PLM+ for design and supply chain integration



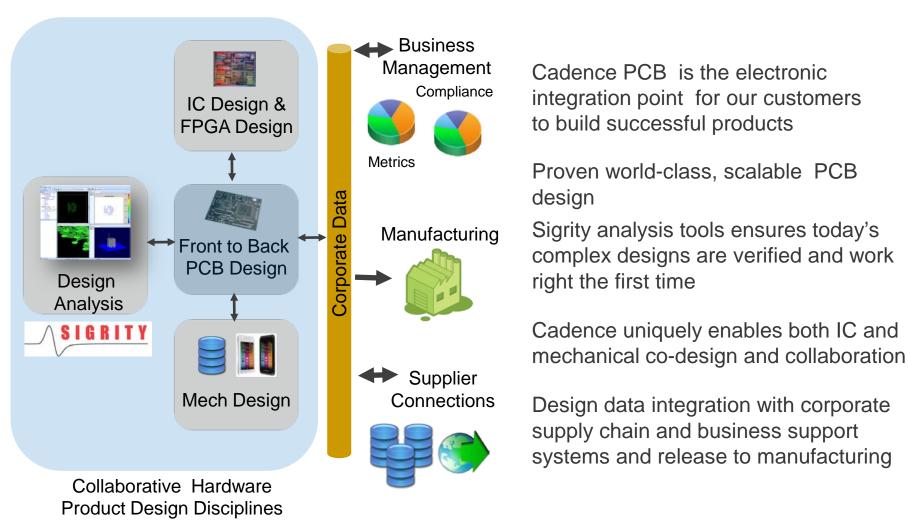
 ^{1 -} CIMdata 2015 Market Analysis Report Series Executive PLM Market Report
 CIMdata does not include operating system, application stacks or end-user application revenue in this report



^{2 -} Architecture, Engineering and Construction for building, process control and monitoring

^{3 –} PLM+ includes integration of the supply and design chain

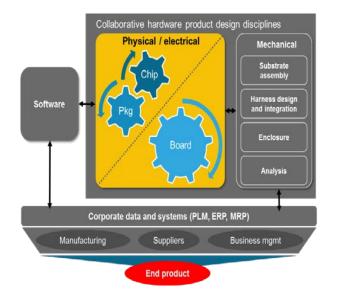
Cadence enables system design enablement



Enable Customers to manage Cost, Quality and Schedule



Allegro – world class PCB design environment

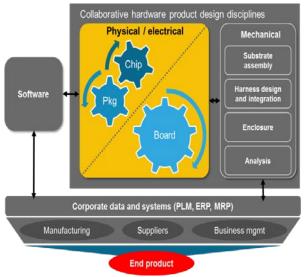


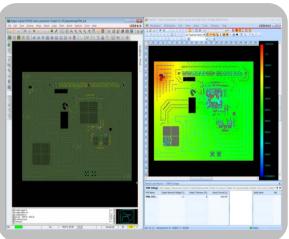
- Allegro® constraint-driven PCB design flow endorsed by customers since 2001
 - Predictable design cycles
 - Accelerate time-to-volume production
 - Eliminate unnecessary design iterations



Allegro and Sigrity integrated solution

Better together – makes product creation predictable

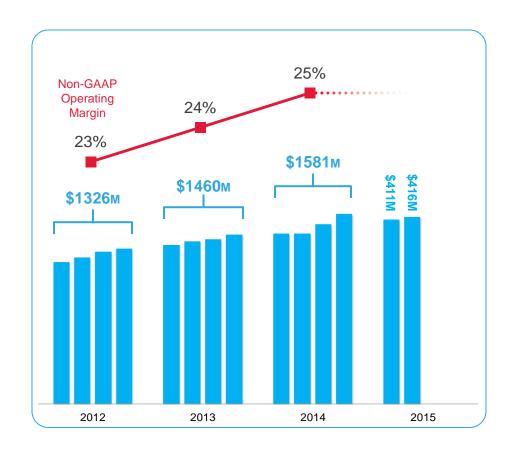




- Allegro® constraint-driven PCB design flow endorsed by customers since 2001
 - Predictable design cycles
 - Accelerate time-to-volume production
 - Eliminate unnecessary design iterations
 - Early prototyping with Sigrity[™] technology creates robust reusable PCB constraint IP
- Sigrity's unique power-aware SI/PI analysis and signoff ensures designs work right the first time
 - Accelerate time-to-volume production
 - Reduce end-product cost by optimizing decoupling capacitors
 - Integrated with Allegro PCB and IC packaging design solutions



Cadence financial performance summary









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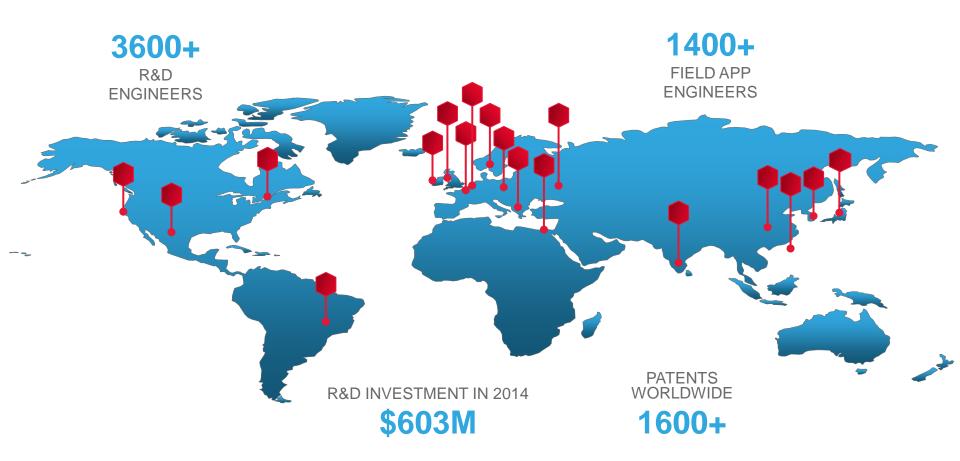
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