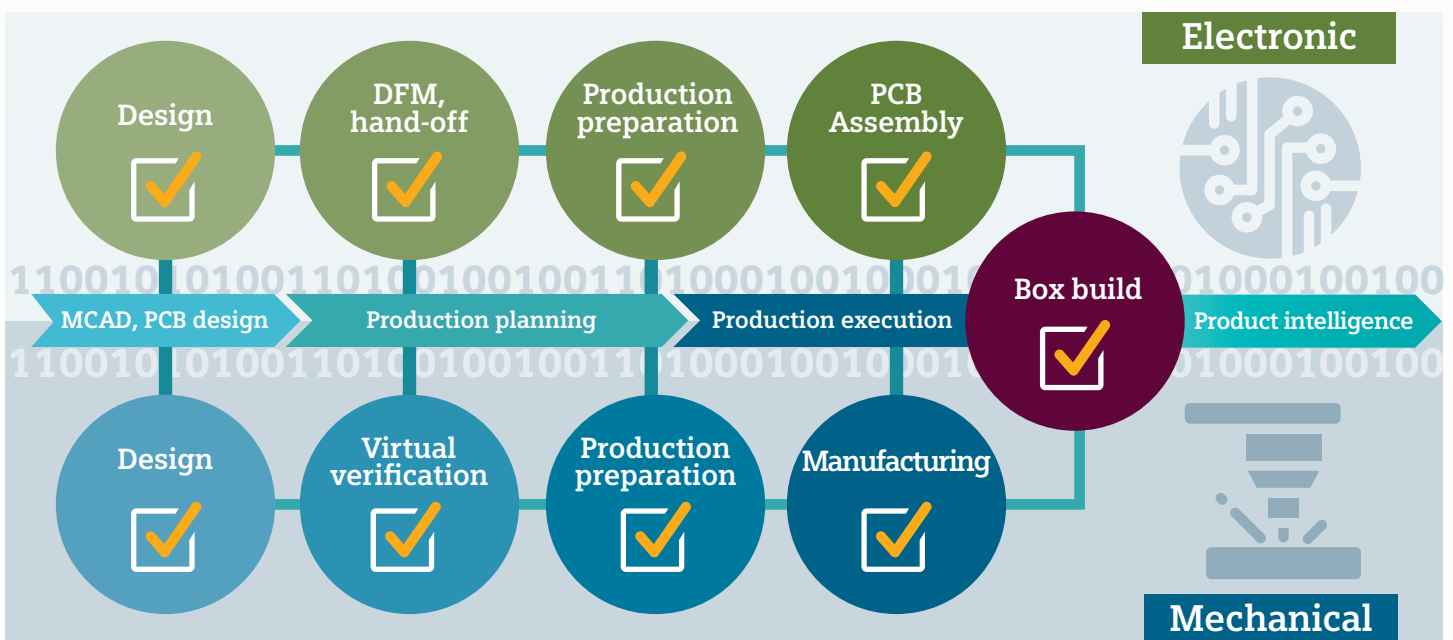


Why smart manufacturing for electronics?

Key challenges of electronics manufacturing

Deliver lot size of one	Optimize material usage	Make data useful
 <p>Quality</p> <ul style="list-style-type: none"> One board to ramp up to quality Enforce proper processes 	 <p>Quality</p> <ul style="list-style-type: none"> Make smart sourcing decisions 	 <p>Transform big data into smart data</p>
 <p>Productivity</p> <ul style="list-style-type: none"> Reduce changeover times Plan and schedule the entire factory Just-in-time material delivery 	 <p>Inventory</p> <ul style="list-style-type: none"> Accurately track location, consumption and status 	 <p>Big data</p> <ul style="list-style-type: none"> Volume Velocity Variety Value Validity
 <p>Continuous improvement</p> <ul style="list-style-type: none"> Move from product-based to process-based analysis Simulate with digital twins 	 <p>Just-in-time</p> <ul style="list-style-type: none"> Get the right materials to the right place at the right time 	 <p>Smart data</p> <ul style="list-style-type: none"> Formatted Delivers insight and foresight Comprehensible Supports real-time decisions

Digitalize the entire value chain with smart manufacturing solutions



Smart manufacturing delivers business benefits

50% NPI time savings	2M inventory reduction	99.9% quality
50% reduced changeover time	20% reduced obsolescence	24 hour new order lead time
20% reduced engineering time	30% increased production efficiency	20% annual growth

(Source: Siemens Digital Industries Software customer case studies)

To learn more about how Siemens helps electronics companies realize the benefits of smart manufacturing, visit:

<https://www.plm.automation.siemens.com/global/en/industries/electronics-semiconductors/>