

INDUSTRIALIZATION OF CONSTRUCTION

What are the Challenges and How to Address Them?



CONTEXT


Gary Fischer, PPI (Chevron ret.)




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The VOICE



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Workers building cars in a factory, 1930s.



From That to This:
Other Industries Have Perfected Modern Production.
So, When Will Construction?



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Other Industries Have
Perfected Modern Production.
So, When Will Construction?

What is “Modern Production”?



What does it mean for construction?



A visit to Ford Motor Company



What could Ford and Chevron have in common?



Big bets

Highly regulated

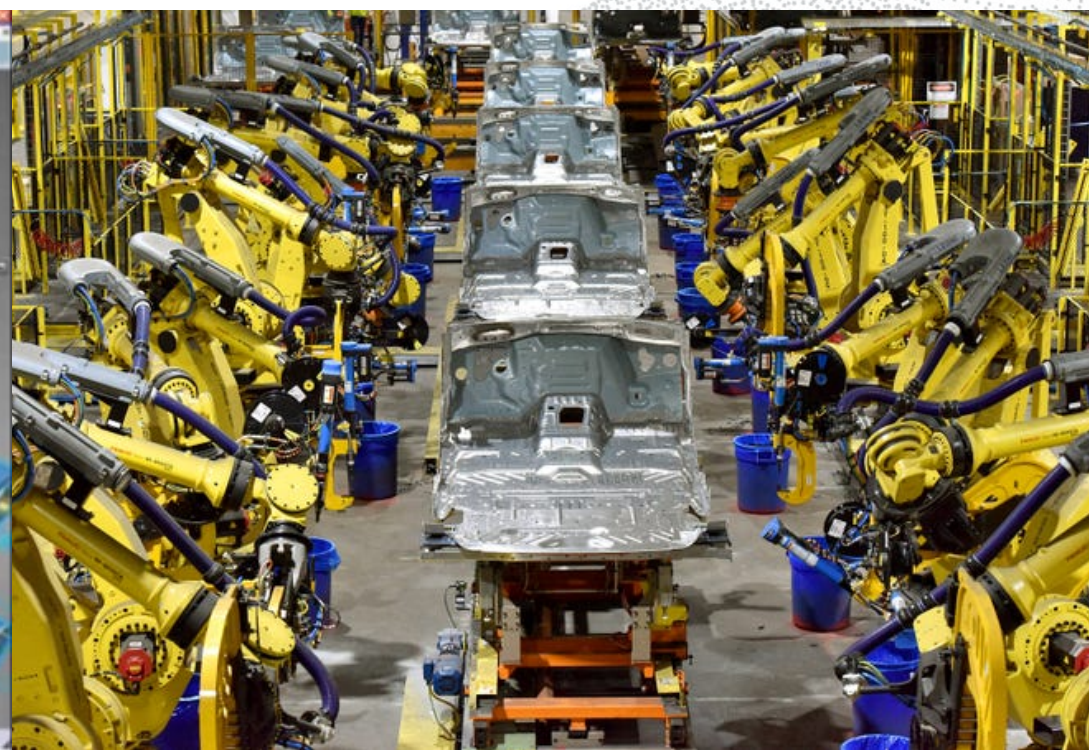
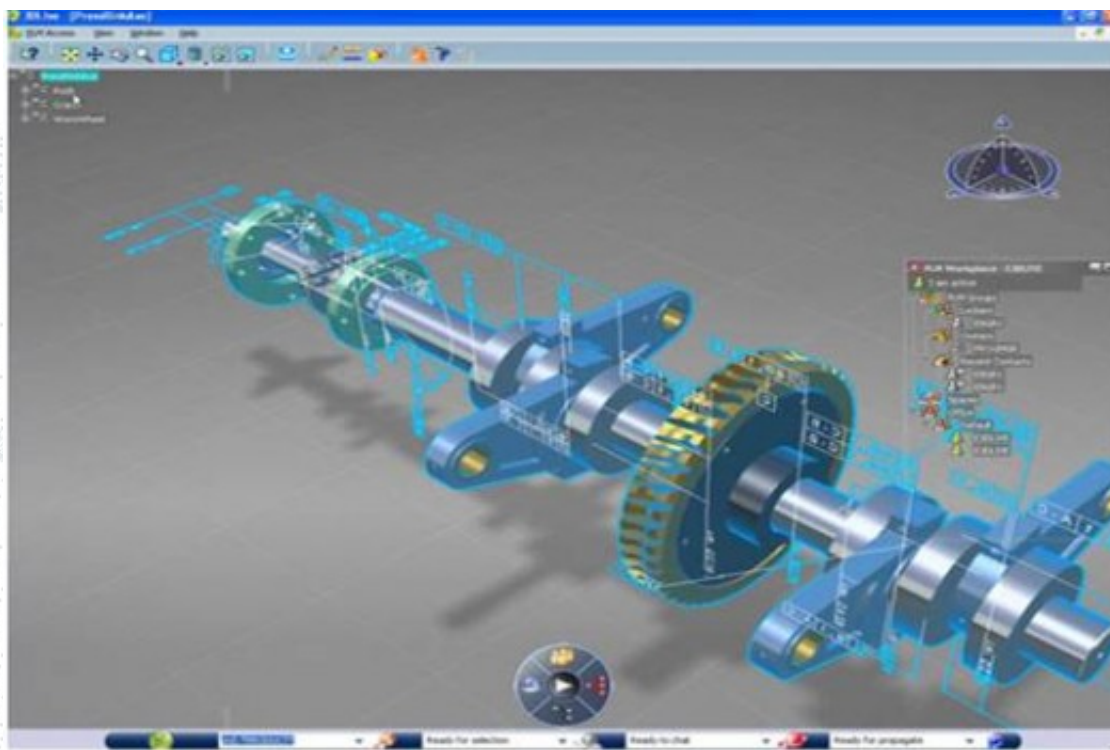
Extremely competitive

Spend to create new products

Supplier intensive

We found modern production!





BOM and the BOP

Design to a cost

Design reuse / standards

Ford engineered

Integrated Suppliers

Digital platform

Virtual build, crash test and maintain

Prototype

Every vehicle is unique

Inventory management

Factory throughput is the key metric!