### Modern design approach

### **Digital Prototyping**

### Requirements of time

 The minimum period of transition from idea to a serial production

Reduction of development staff

• The minimum of paperwork

### Possible way to solve

 Team should work in a <u>Universal</u> information environment (system)

 More simple methods for calculating (modeling) the behavior of the device and its tests

Maximum computer-aided manufacturing

## Digital Prototyping

### What is a digital prototype?

**Digital prototype** - a digital model of the product that is used to test its functions and form. Digital prototype becomes more perfect when designers and engineers integrate all the conceptual, mechanical and electrical design data.

# What problems are solved by technology?

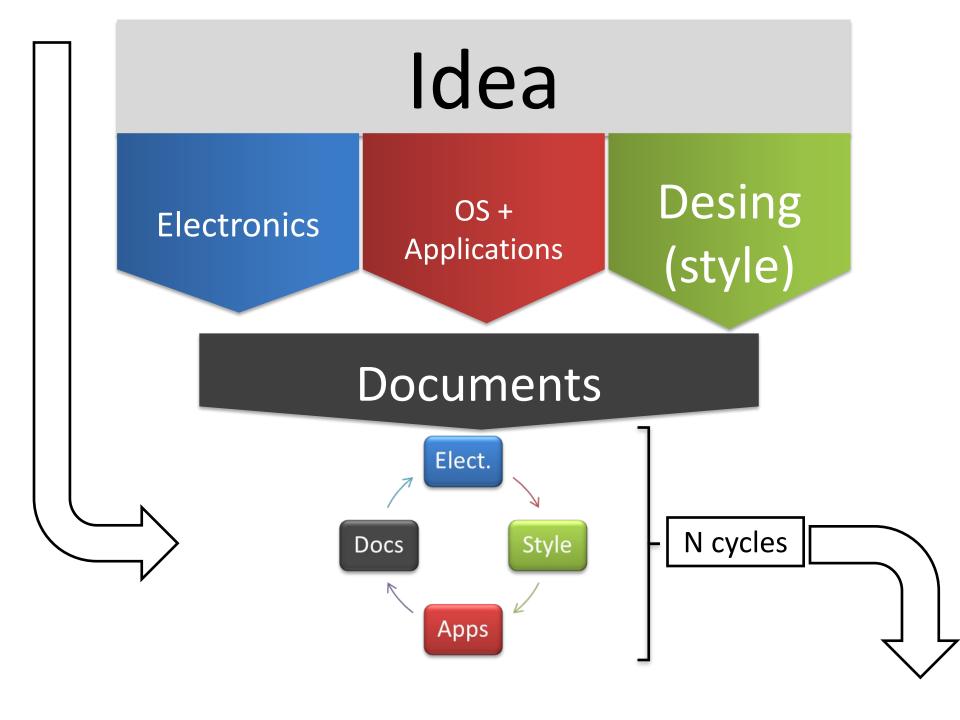
- Complexity of transition from conceptual model to the design documentation
- Dissociation of systems and digital documentation formats for different parts of the structure
- Separation of process of designing from manufacture process
- The high cost of testing prototypes

### What have we won?

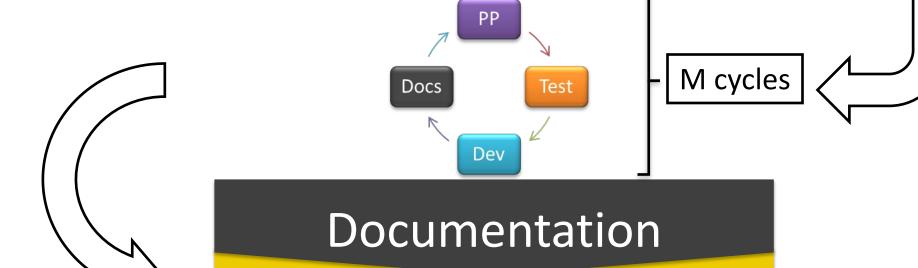
- Reducing the time and the transition from idea to serial production.
- Reducing the cost of production of prototypes and testing.
- Acceleration of the innovation process.

Time Money Market

# Example

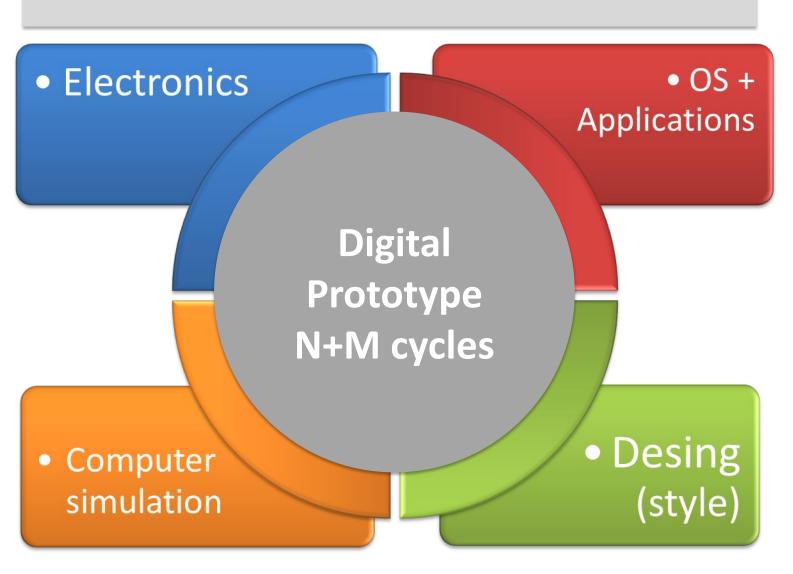


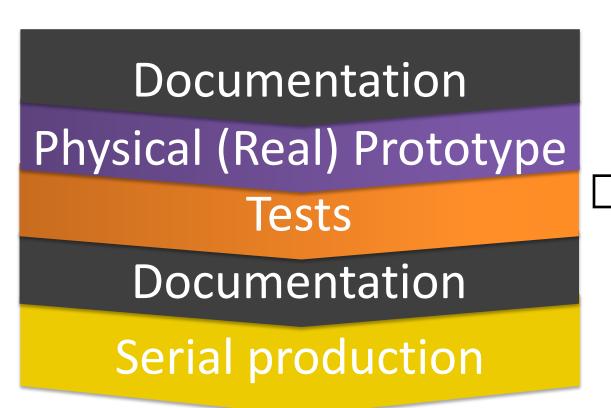




Serial production

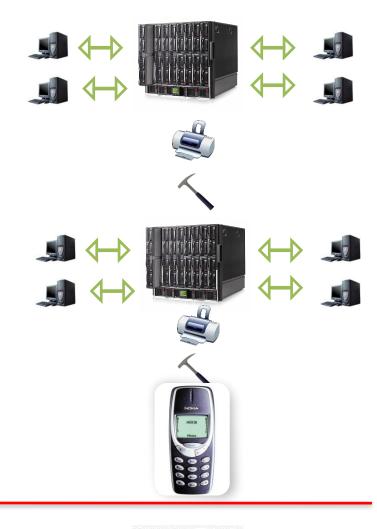
# Idea





# Old

### New



















### Quote



According to recent studies, manufacturers that use digital prototypes constructed for 50% less physical prototypes than their competitors, products entered the market 58 days earlier, cost of the prototype was reduced by 48% and they free up time and resources for innovation.





Thank you for your attention