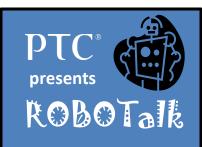


How to build a robot from concept to competition

September 17th, 2014

WELCOME



Thank You for joining us!PTC Experts on this webinar



Jordan Cox Director, PTC K12 Programs



Scott Morris Windchill & Creo Expert



Mark Cheli Creo Expert & Webex Technical Assistance



Todd Kraft Creo & Mathcad Expert



Kari Karwedsky PTC FIRST Program Manager

Our new host, David Price

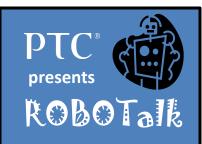




DAVID PRICE

"FIRST makes me smile . . . always. It makes me feel great about the future, because I think every kid I meet is a genius!"

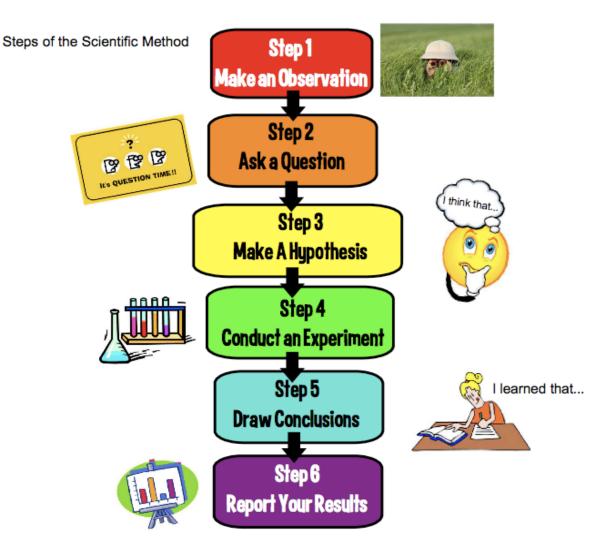
AGENDA



- Poll Everywhere
 - What FIRST program are you competing in? Where are you from?
- The ROBOT Development Process
 - (a.k.a. the Product Development Process) Jordan Cox
- Introduction to 3D Modeling Mark Cheli
 - Poll Everywhere
 - What one word would you use to describe the new FTC game, Cascade Effect?
 - What one word do you think will describe the next FRC game that will be announced in January?
- Design Challenge David Price
- Questions & Answers

The Scientific Method (Inquiry)

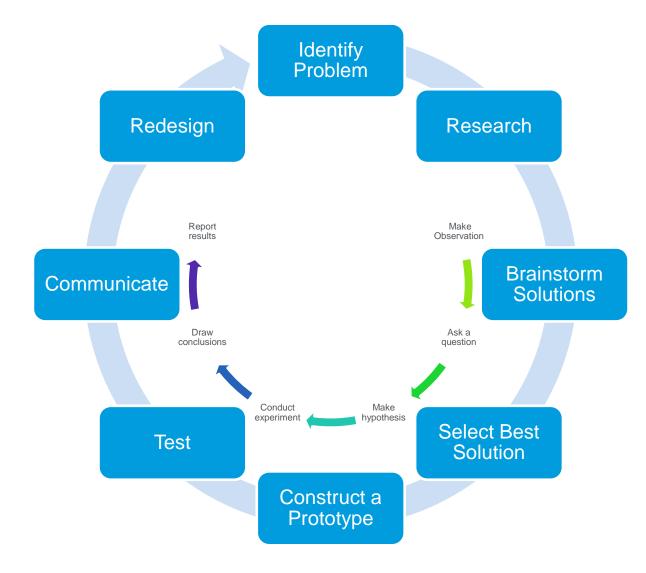
One of the first processes you learned



The Engineering Design Process (Problem Solving)

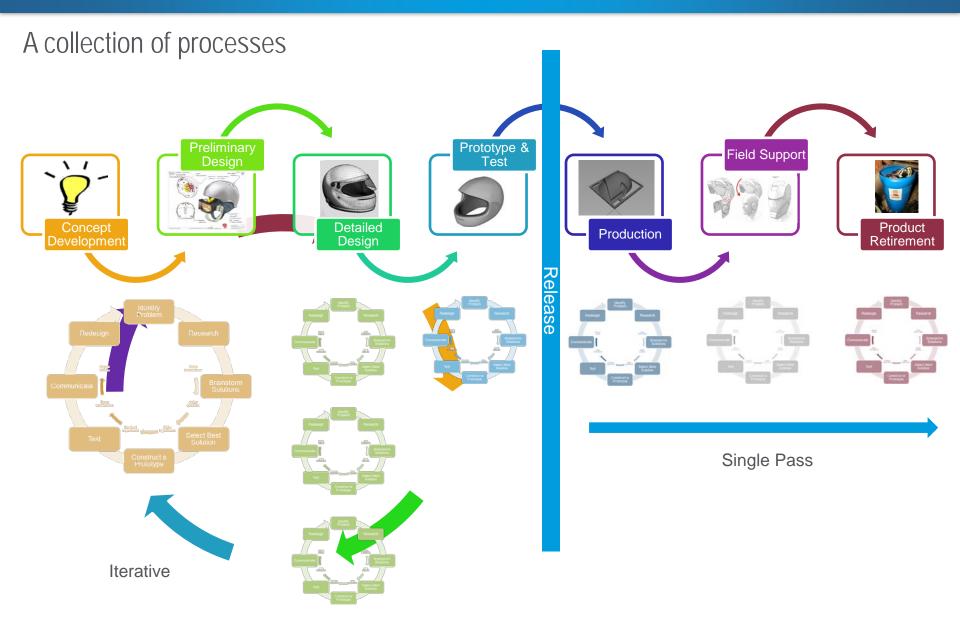
PTC®

A larger process that encompasses the scientific method (Problem Solving)



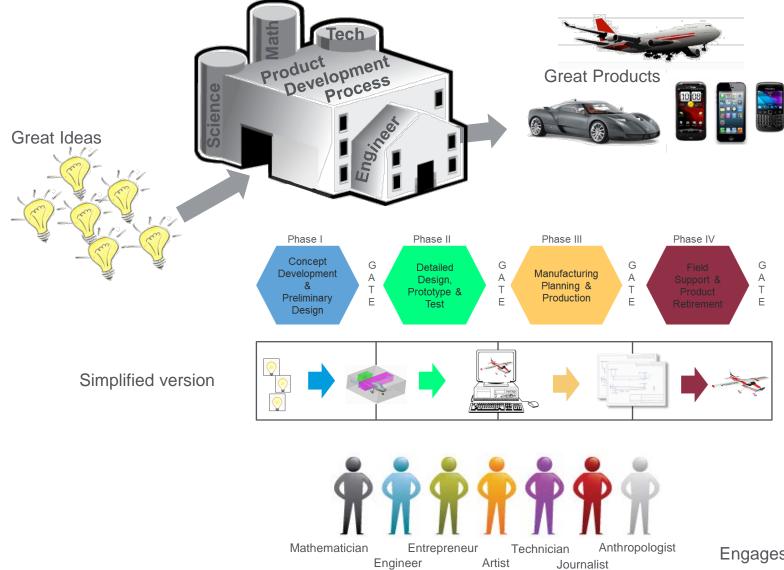
The Product Development Process

PTC[®]



The Product Development Process

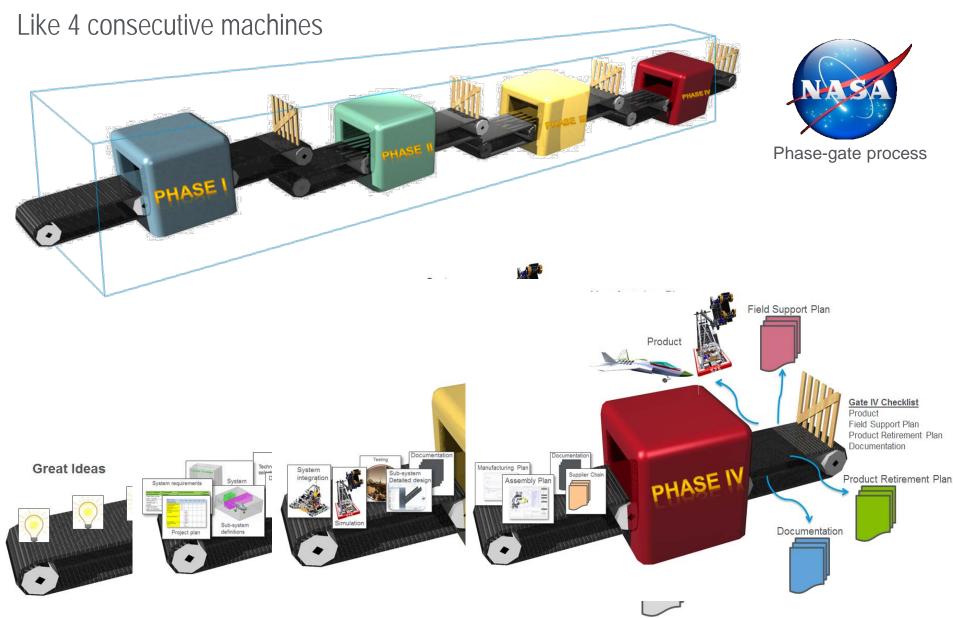
The fundamental process for improving quality of life



Engages all of society

4 Phases Transforming Ideas into Products

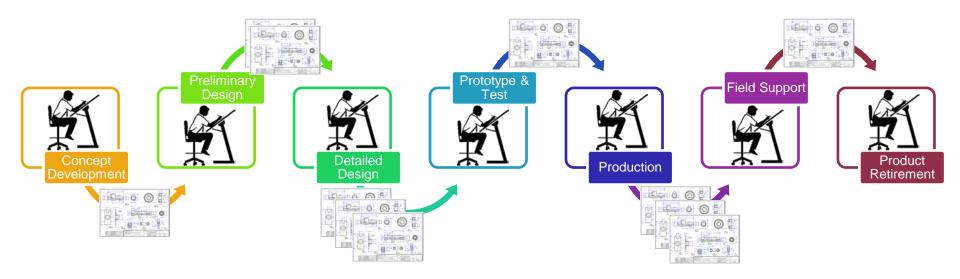




The PTC Story

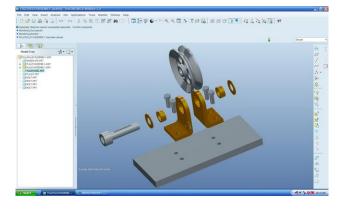
PTC[®]

Solid Modeling the language of product development



1986 PTC offered the first Solid Modeling Software package

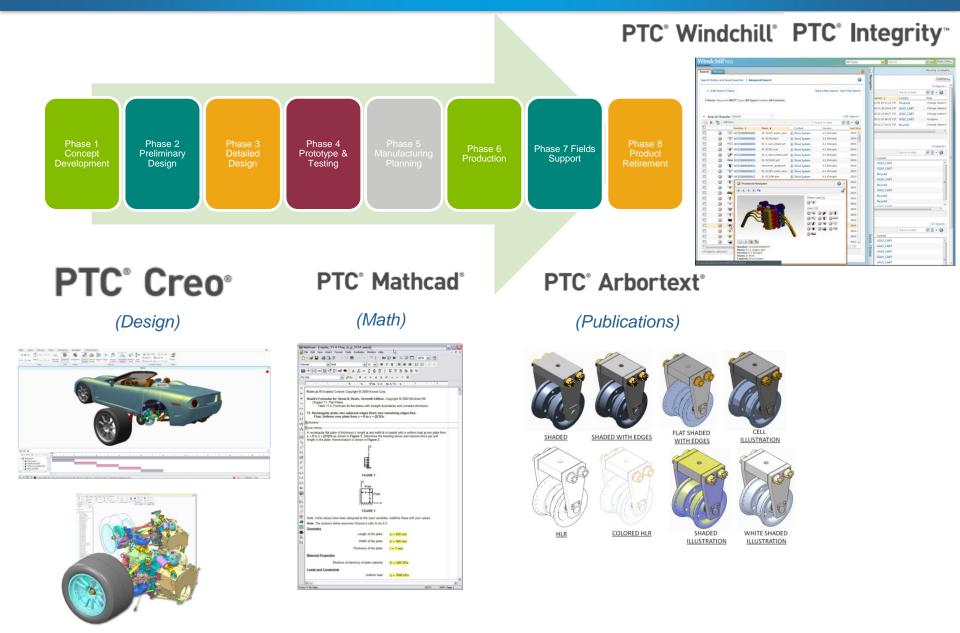


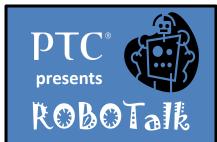




PTC Tools: Supporting the Product Development Process



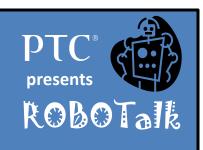




With PTC Creo

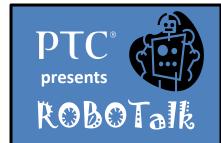
INTRODUCTION TO 3D MODELING

DESIGN CHALLENGE – SEP 17^{TH}



What do you think is the hardest part of the newest FTC game, "Cascade Effect", and how are you planning to solve it?





ASK THE EXPERTS... QUESTIONS?