



# SCRUM MASTER TOOL

**Project Proposal for the University of Kentucky  
Senior Design Class**

# INTRODUCTION

- Employed at Toyota TMNA Information Systems
- Graduated from UK Computer Science 2001
- Had this same class with Dr. Hayes in 2001

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# TOYOTA IN THE US



**365,000 Jobs**  
created in the U.S.<sup>1</sup>



**1,500 Toyota, Scion & Lexus Dealers**



**1,336,582**  
vehicles produced<sup>2</sup>



**13 Hybrids**  
available in the U.S.<sup>3</sup>



**35.3 Billion**  
parts, materials & components purchased<sup>4</sup>



**\$595 Million**  
in philanthropic contributions<sup>5</sup>



**10 Plants**  
in the U.S.



**\$21.9 Billion**



direct investment  
in the U.S.

All data as of December 31 | except where noted. \* May represent more than one location. <sup>1</sup> 2011 Center for Automotive Research study. Includes direct, dealer and supplier employees, and jobs created through their spending based on mid-year 2010 data. <sup>2</sup> Toyota vehicles and components are built using U.S. and globally sourced parts. <sup>3</sup> As of 2011. <sup>4</sup> Parts, materials and components (FY ending 3/11). Goods and services (CY 2011). <sup>5</sup> Cumulative, as of December 31, 2011.

# TOYOTA ENGINEERING – R&D



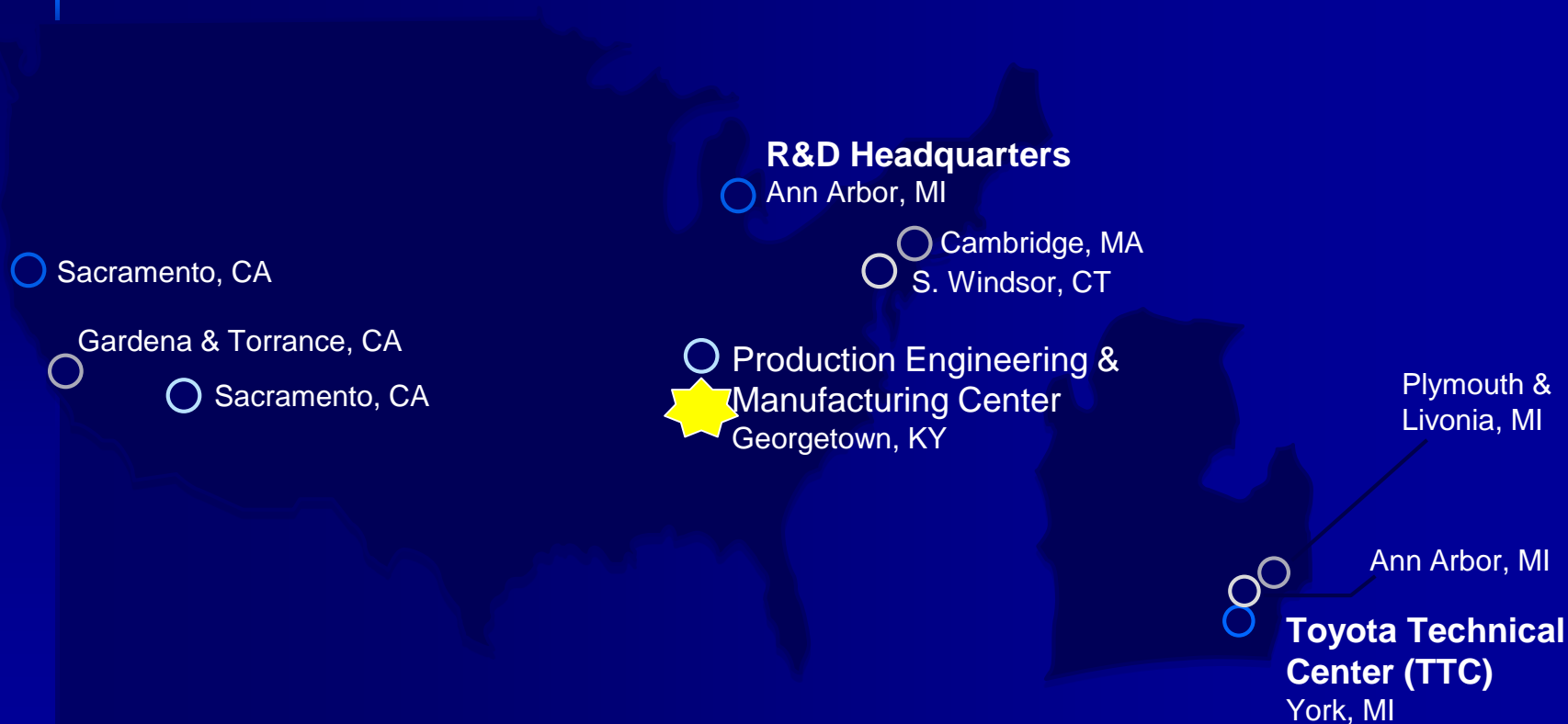
**\$1 MILLION**

Spent on R&D every hour



**9 R&D facilities**

in North America



# WHO WE ARE

## Toyota Motor North America, Information Systems

- Our group is located in Georgetown, KY and have recently undergone a “SCRUM Transformation” for the entire department

North American CIO

Business Specialization & Enablement



Mfg & Engineering Business Systems

R&D and Mfg Site Services

Demand & Supply (Includes Incentives)

After Sales (Customer, Accessories, Parts, Service, Quality)

Dealer, Field, & Affiliates

Telematics

Finance & Indirect Procurement

Corporate Services

Enterprise Architecture, Data & Advanced Technologies

Information Security – Security, Risk Management, Compliance

IT Mgmt – Strategic Planning, Governance, Fin Mgmt, VMO/AM, Talent, Comm, & Innovation

Enterprise Services – End User, PMO, Service Management

Infrastructure Services – Infra, Network, Cloud, Data Cntr, AV, Ops, New Bldgs/Plant Expansions

# OUR CHALLENGES

- We have recently undergone a “SCRUM Transformation” for the entire department
- Many teams are in distributed locations making collaboration difficult
- Not everyone has embraced SCRUM yet (blend of waterfall and SCRUM)
- SCRUM Masters spend a great deal of time on manual tracking and reporting
- Available tools do not support management reporting expectations

# WE ARE LOOKING FOR

## SCRUM Master Reporting Tool

- Sprint Tracking Tool for Current Sprint
  - Track and View Burndown Chart
  - Sprint Staffing Availability Tool for capturing normalized velocity
- Sprint over Sprint Tracking
  - Track Commitment, Interrupts, Emerging Work, Points Delivered
  - Chart team velocities over time
- Story Point Estimation Tool
  - Establish/track baseline stories
  - Provide Visual Affinity Estimation
- Team Story point voting tool for distributed teams
- Retrospective Management tool for distributed teams
- Hooks into Trello / Jira an added bonus!

# WE WILL PROVIDE YOU

- A project to develop a tool that many of our SCRUM masters have asked for and our SCRUM coach has been planning to develop
- Excellent communication throughout project
- Input and Collaboration with one of our Scrum Coaches (from an outside SCRUM expert consulting company)
- Opportunity to come to our facility to meet stakeholders/end users, tour the mfg plant, see our work environment and participate in SCRUM ceremonies for a day (this is not required)
- Dedicated single point of contact with opportunity to collaborate with others if you desire

# Q & A?



***Thank you for your time!***

***Contact Information***

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