

We-IoT Project Concept

Senior Year - 2019 | St. Edwards

Taught by John Mulholland

Concept wiki page - seeding collaboration and project value

0.0 Wiki Objective and Table of Contents

This wiki was crafted to introduce project context, objectives, scope and purpose.

A PoC Strategic Framework has been drafted to interlock:

1. Strategic Goals
2. Architecture Principals
3. Solution

An agile scrum approach will be used to manage stakeholder expectations and realize Solution Deliverables.

A Trello Board reference complements this wiki page and will drive Solution iteration and incremental value creation.

This Concept Page will be updated periodically as stakeholder insights evolve.

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1.0 We-IoT Opportunity

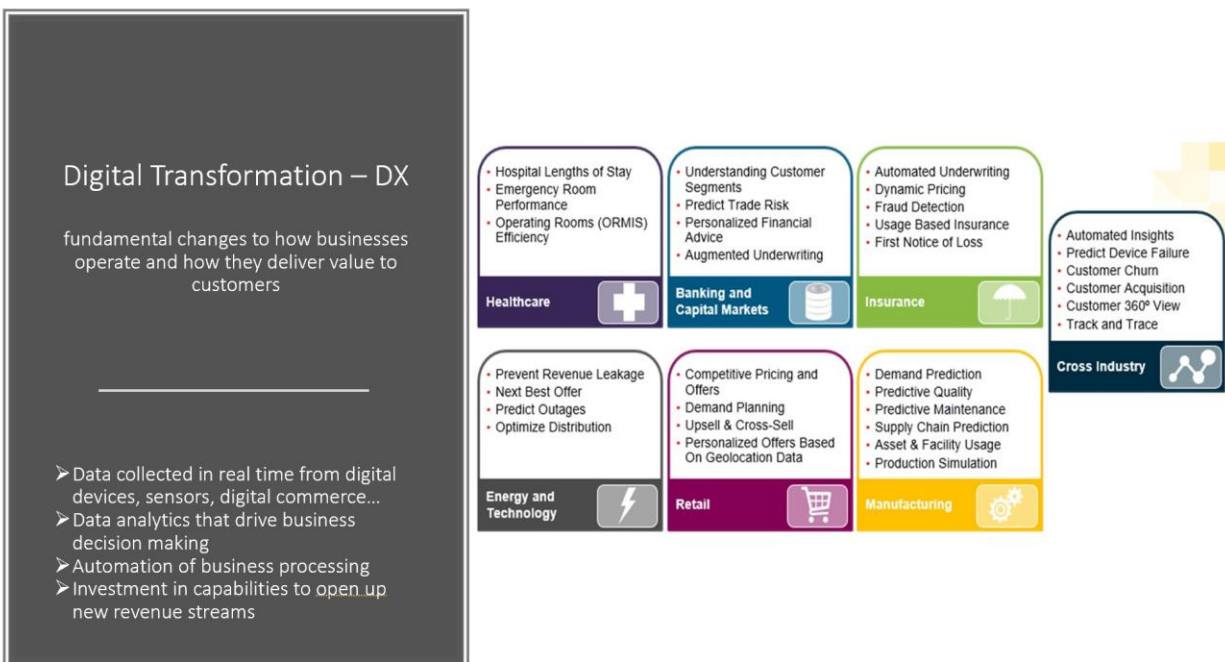
Your project team is part of a software services company, We-IoT.

- **We-IoT's mission:** create unique, high-value, first-of-a-kind IoT services for the Digital Market.
- **We-IoT's project based approach:** leverage creative small teams and the agile scrum framework to trail blaze emerging customer value propositions.
- **We-IoT's tagline:** Everyone knows the internet. At We-IoT, we know Things!

We-IoT's agile approach minimizes customer time-to-value

- We-IoT breaks down stakeholder vision and delivers **working software prototypes** in a matter of weeks.
- Along the way, We-IoT's stakeholders get a grip on **customer value, market potential and investment options.**

The Go-Digital Alliance was formed by companies seeking to pool knowledge, capabilities and investment... each member is undergoing a [Digital Transformation \(Links to an external site.\)](#) to better create value in core businesses and explore new frontiers. The Alliance group includes representation from many Industries. Market share, competitive position and company survival are at stake!



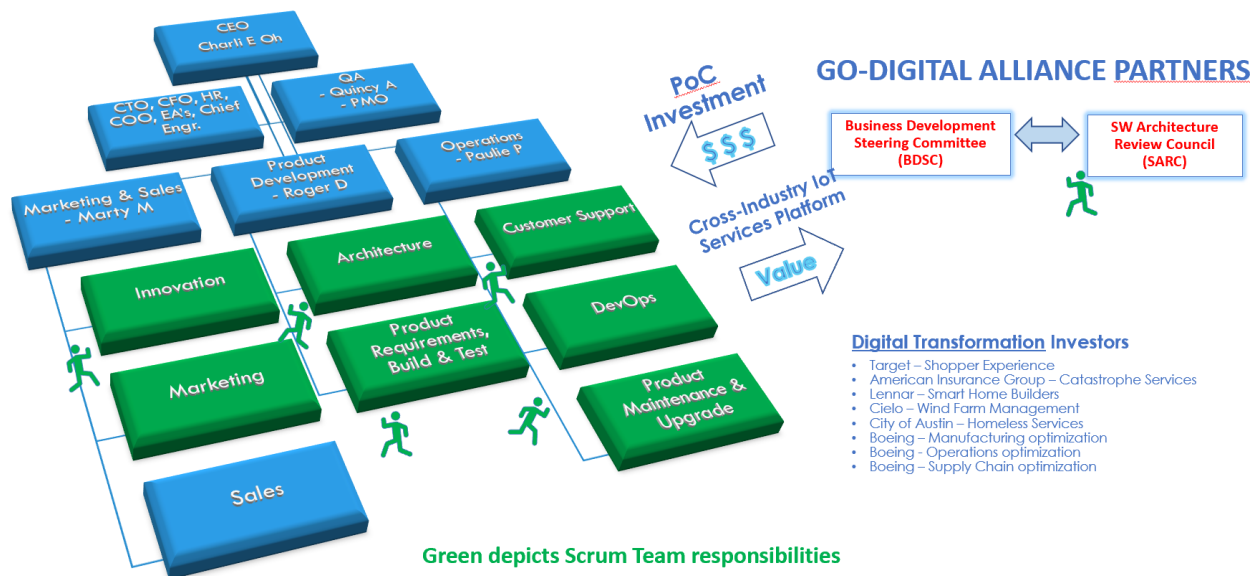
The Go-Digital Alliance has engaged We-IoT to help understand how the alliance's strategic goals may be facilitated by a Cross-Industry Services Platform. The Go-Digital Alliance released a press release that included a quote from the We-IoT CEO, Charli E Oh...

"We got the internet, we got the cloud. The next step in human/IT evolution is to connect all the Things and leverage the intelligence of all the Things. The Things can predict when that wind turbine should get a tune-up, the Things know when you've drifted out of your lane on the highway, the Things can encourage you to embrace a healthy lifestyle, the Things have the power to relieve the pain of traffic insanity in Austin, TX.

At We-IoT, we are Thing Whisperers, we bring super-critical IoT value to your business.

At We-IoT, we know Things!"

WE-IOT ORGANIZATION



2.0 PoC Governance

Proof of Concept

- Tests something about the solution - technology, an algorithm, a process
- In a controlled environment like a lab or test

Governance

The Alliance Business Development Steering Committee has embraced a Governance Framework to align alliance strategy, architecture and the services platform. A Software Architecture Review Council (SARC) will facilitate alignment of strategy, architecture and platform.



PoC End of Sprint demos, stakeholder presentations and **Milestone Reviews** will periodically offer stakeholders insights into how their investment is realizing value.

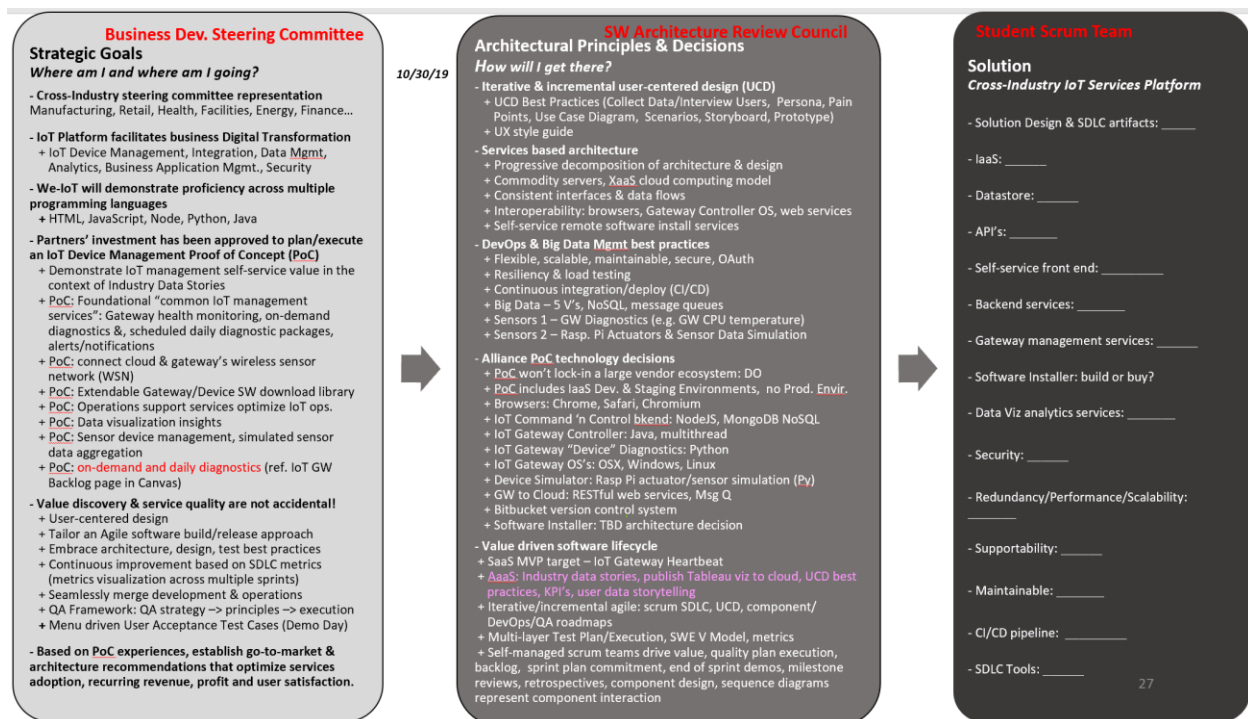
IoT PoC Timeline



3.0 PoC Strategic Framework

The Steering Committee drafted Strategic Goals during their kick-off meeting in July 2019. The Architecture Council is developing Architecture Principals, a first draft is anticipated in August 2019 (posted 8/25/19).

The Architecture outlined a strawman Solutions reference for Scrum Team consideration. Scrum Teams will evolve a Solution Proposal to be reviewed with Sprint 0 demo presentation.



4.0 Your Project Roadmap and Teams

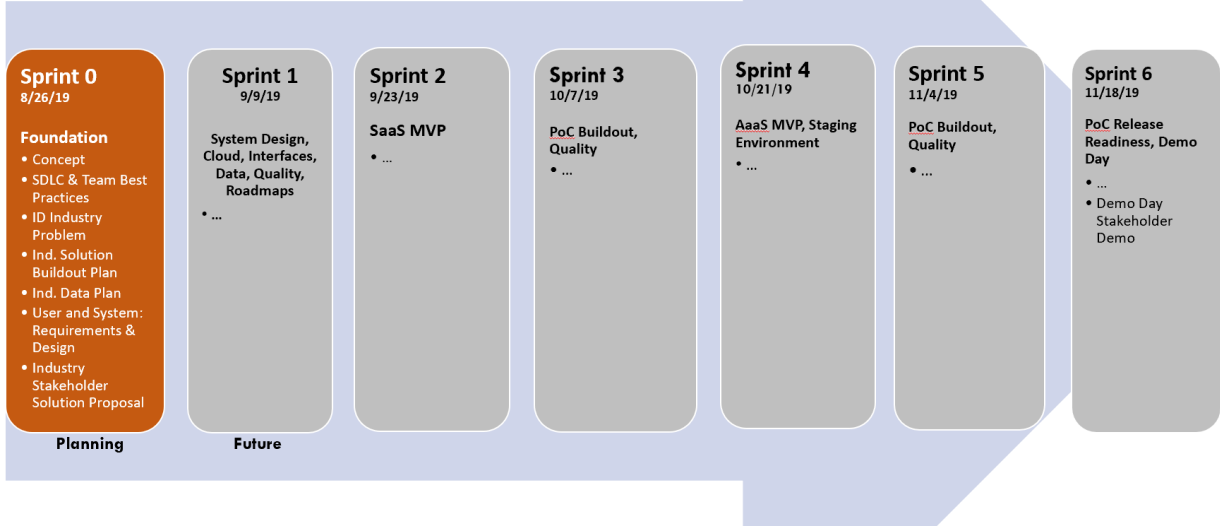
Project

- Temporary endeavor undertaken to create a unique product, service or result.
- A project is temporary in that it has a defined beginning and end in time, and therefore defined scope and resources.
- Your team's mission is to optimize stakeholder value while managing the "[triple constraint \(Links to an external site.\)](#)"... with quality being the central theme

Roadmap

We-IoT Project Team *xy* Roadmap

Industry Digital Transformation Platform PoC



▼ Project Teams - section 2 1

7 students



⋮ Jacob Beneski ⋮	⋮ Simon Gohl ⋮	⋮ Anil James ⋮
⋮ Anthony Mercado ⋮	⋮ David Padilla-Arenivar ⋮	⋮ Elizabeth Sandoval ⋮
⋮ Ian Smith ⋮		

▼ Project Teams - section 2 2

6 students



⋮ Bailey Bagwell ⋮	⋮ Mark Bernhardt ⋮	⋮ Brad Guzman ⋮
⋮ Joshua Leikam ⋮	⋮ Benjamin Rosbury ⋮	⋮ Jarrod Tomasek ⋮

▼ Project Teams - section 2 3

6 students



⋮ Casey Laughlin ⋮	⋮ Amanda Lewis ⋮	⋮ Evangeline Mavrommati ⋮
⋮ Michael Rowland ⋮	⋮ Matthew Sloan ⋮	⋮ Michelle Solis ⋮

Team Responsibilities Model Template (7 students)

6-person team covers minimal GW Diag/Download responsibilities

Role	Responsibilities
DevOps & QA Point of Control	Nonfunctional Requirements System Design, Cloud Environments & Technology Stack, CI/CD, Quality Strategy/Plan
Scrum Master & Front-End Lead	Personas, UCD, front ends... Scrum master, SDLC metrics (Tableau Viz)
Command In Control Lead	Web Application Backend (<u>nodeJS</u>), Web Services, Message Queue
Gateway Controller Lead	IoT Device Management (java), <u>MultiThread</u> Task Manager, Data Strategy/Roadmap
Gateway Diagnostics Lead & SW Package Download Lead	Gateway Diagnostics (python) will offer the Gateway Controller a means to test IoT device actuator/sensor data management. Diagnostic packages will be shared across teams. SW package download team lead.
IoT Device & Data Simulation	Industry sensor data simulator, actuator simulation (python)
Industry Analytics Lead	KPI's, data stories, analytics strategy/roadmap, Tableau, Tableau Online, Tableau Server, <u>PoC</u> Software Release Manager