

Future-Proof Strategy for Cloud Adoption



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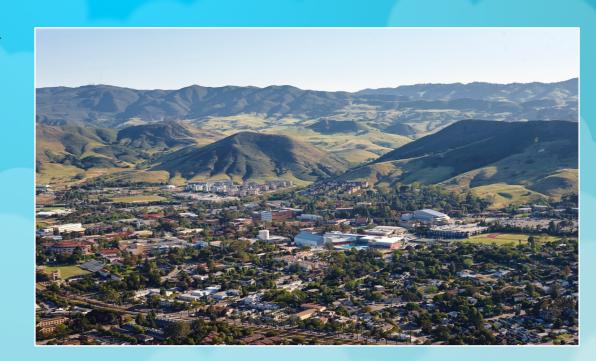
About Cal Poly

Cal Poly is a nationally ranked, fouryear, comprehensive public university located in San Luis Obispo, halfway between San Francisco and Los Angeles on California's Central Coast

Students: 21,306 **Faculty:** 1,439 **Staff:** 1,654

Bachelor Programs: 63 **Master Programs:** 34 **Minor Programs:** 79

Credential Programs: 13



^{*}As of Fall 2016

Accelerator versus Standardizer: Cloud Strategies for the Future

"a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources"

NIST Cloud Computing Standards Roadmap (2013)

Years

Clarity

Standardization Acceleration

Standardization







Commonality

Acceleration

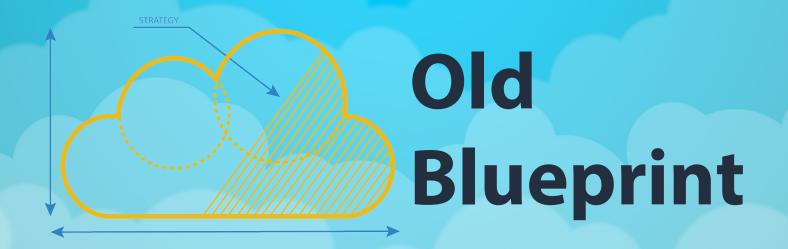






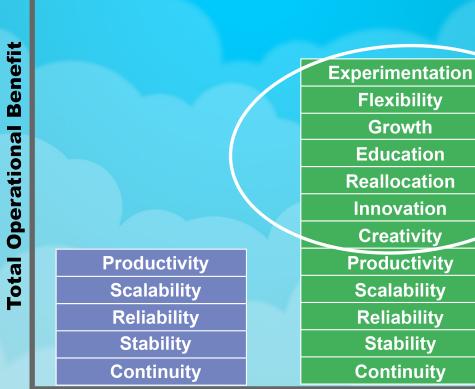


Flexibility Scalability Reliability



Change





Standardization

Acceleration

1963 built in 3000 sqft 900 servers **25,000** customers

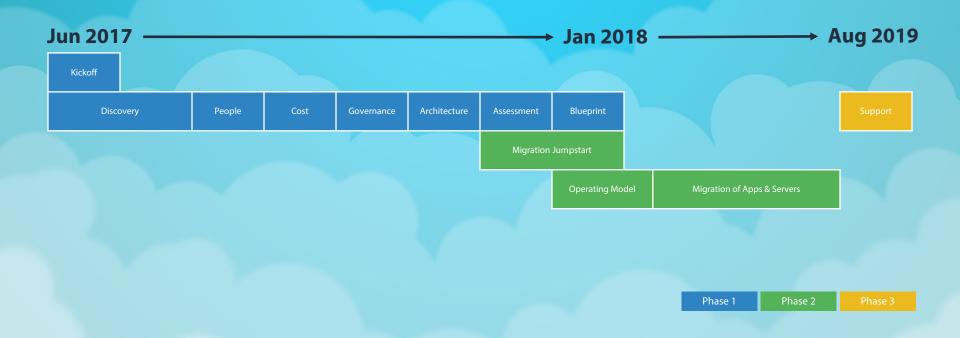
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Lambda









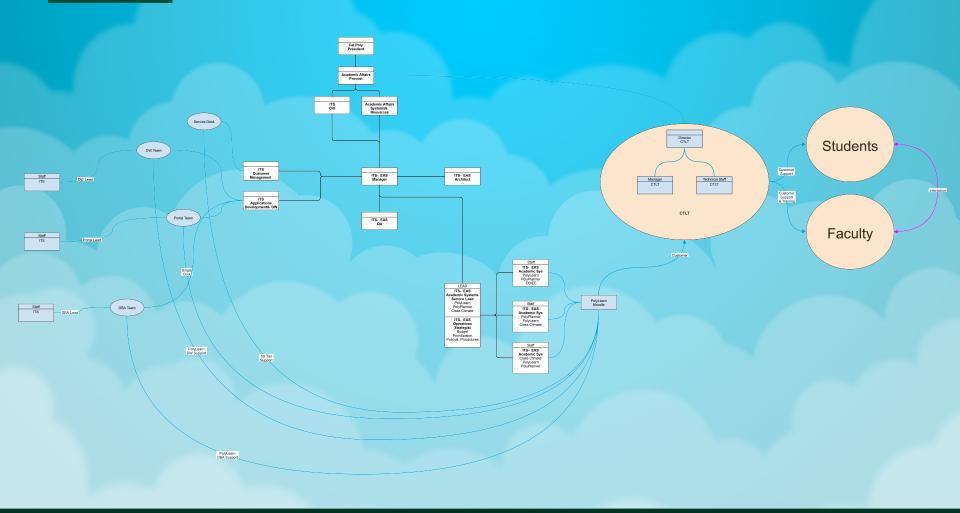




WorkSpaces

People, Processes & Services







"Cal Poly's motto is 'Learn by Doing,' and as an institution focused on technology, what better way to embody that than by transforming our own IT infrastructure and going all-in with the world's leading provider, AWS"

Cal Poly President Jeffrey D. Armstrong





Deployment Strategy



Flexibility, Scalability, Reliability



Policy & Process Guardrails



Customer Needs

Discussion



Mission

Lower Costs

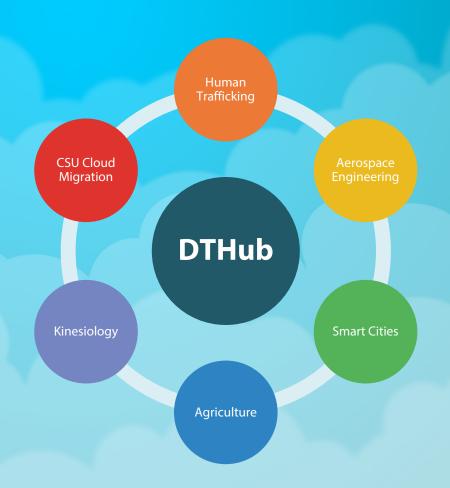
Technology Options

Economic Development

Replicate Success

Experiences

"The Cal Poly Digital
Transformation Hub utilizes
proven innovation
methodologies for the
development of
technologically advanced
solutions to real-world
challenges."



Benefits

Roles



Sample Challenge

What if all types of data collected by/for the California law enforcement community could be easily and securely accessed at low cost by the widest variety of devices/tools?

Core Questions

Customer **Executive Agreement** Review to Proceed **Realize Value Define Prototype Identify Engage Deliver new** digital offering **Solution Vision** (PRFAQ) Customer Interest **Solution Introduce Digital Innovation Innovation** Visual **Scale architecture Prototype** Frame the Design Workshop Challenge (Working Backwards) Value Proposition **Establish** operating model & capability **OUTCOMES** Statement of solution definition in the customer's voice ■ Establish specific Executive sponsor identified New digital offering ■ Minimum Viable Product (MVP) Digital offering brought to ■ Vision articulated; specific defined at high level customer interest launched life with descriptive or digital business problem or strategic Scalable architecture designed in innovation Customer needs defined prototype opportunity identified as focus Stakeholder alignment and deployed process Value proposition created, for digital innovation and momentum Operating model established to with order-of-magnitude ■ Commitment to work with the support MVP and sustained cost/benefit estimates Innovation team innovation

Focus of the Digital Innovation program

Area of Interest	Category	Challenge Topic
Human Trafficking	NGO/Non-Profit	Digital Automation
Evidence Sharing	Public Sector	Secure Storage
Missing Children ID	NGO/Non-Profit	Facial Recognition
Cloud Migration	Public Sector	Cloud Migration Topics
Process Optimization	Public Sector	Equipment Checkout Automation
Big Data Analytics	NGO/Non-Profit	Nutritional Impacts of food in Juvenile Detention Facilities
Agricultural Research	Public Sector	Efficient Data Analysis and Storage

Where are we?

What's next?

Discussion



Accelerator versus Standardizer: Cloud Strategies for the Future

ITS CLOUD PAPER SERIES

Dustin DeBrum Information Technology Services Cal Poly

Find Out More

- Read the white paper: bit.ly/cloudstrat
- Visit: dth.calpoly.edu



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