

Adoption Strategies: Preparing Your Organization for GIS

Michael Green



Michael Green

Principal Adoption Strategy Consultant, Esri

MBA. Emphasis in GIS.

- 20+ year track record of business management and strategy planning
- Experienced working with various sized organizations plan, manage, and sustain change through executive sponsorship, effective communication, coaching, and enablement.
- Partnered with large organizations, small departments, and many other organizational sizes in between. Industries include State and Local Government, Transportation, AEC.
- Brings creativity, forward thinking, business-oriented perspectives that attracts senior leadership to vocally advocated for geospatial solutions.
- GIS enthusiast



Education and Professional Certifications:

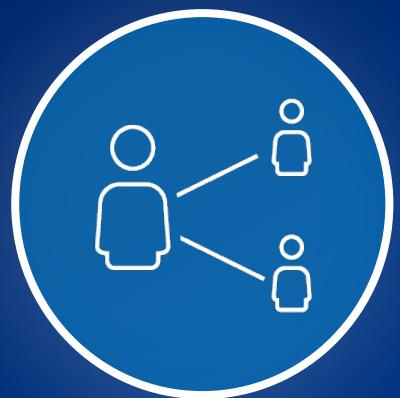
BS Business. Administrative Management – Cal Poly Pomona | MBA, GIS Emphasis – University of Redlands

*Prosci Certified Change Practitioner, TRACOM Social Styles Certification, TRACOM Resiliency Certification,
TRACOM Agility Certification*

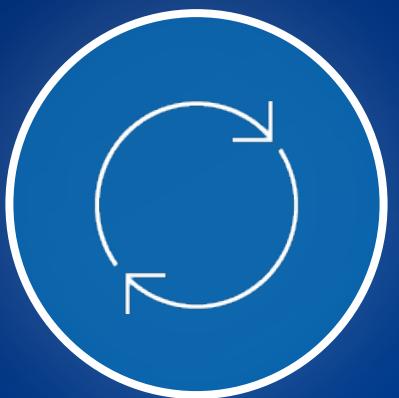
Agenda

- Why is a People oriented Adoption Effort Important?
- Organizational Perspective
- Practical Tips for Successful GIS Implementation and Sustaining Change

Geospatial System Components



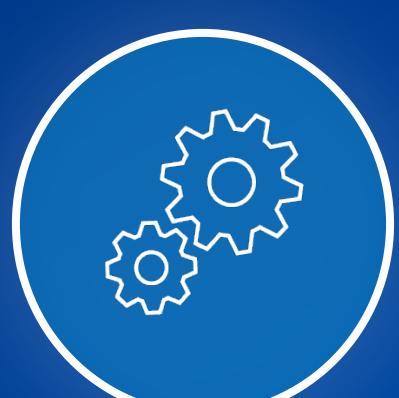
People



Process



Data



Technology

Organizational Change Management



People

Process

Data

Technology

People

A structured approach

IRL – In Real Life

Leadership
doesn't
know what
GIS is /
does.

We stop what
we're doing,
build what they
ask for, and they
don't use it.

Our user
complaints are
really high.

Asset
Management (or
other Dept.) is
not on board.

Six departments
are now using
GIS. And each
one is doing it
different.

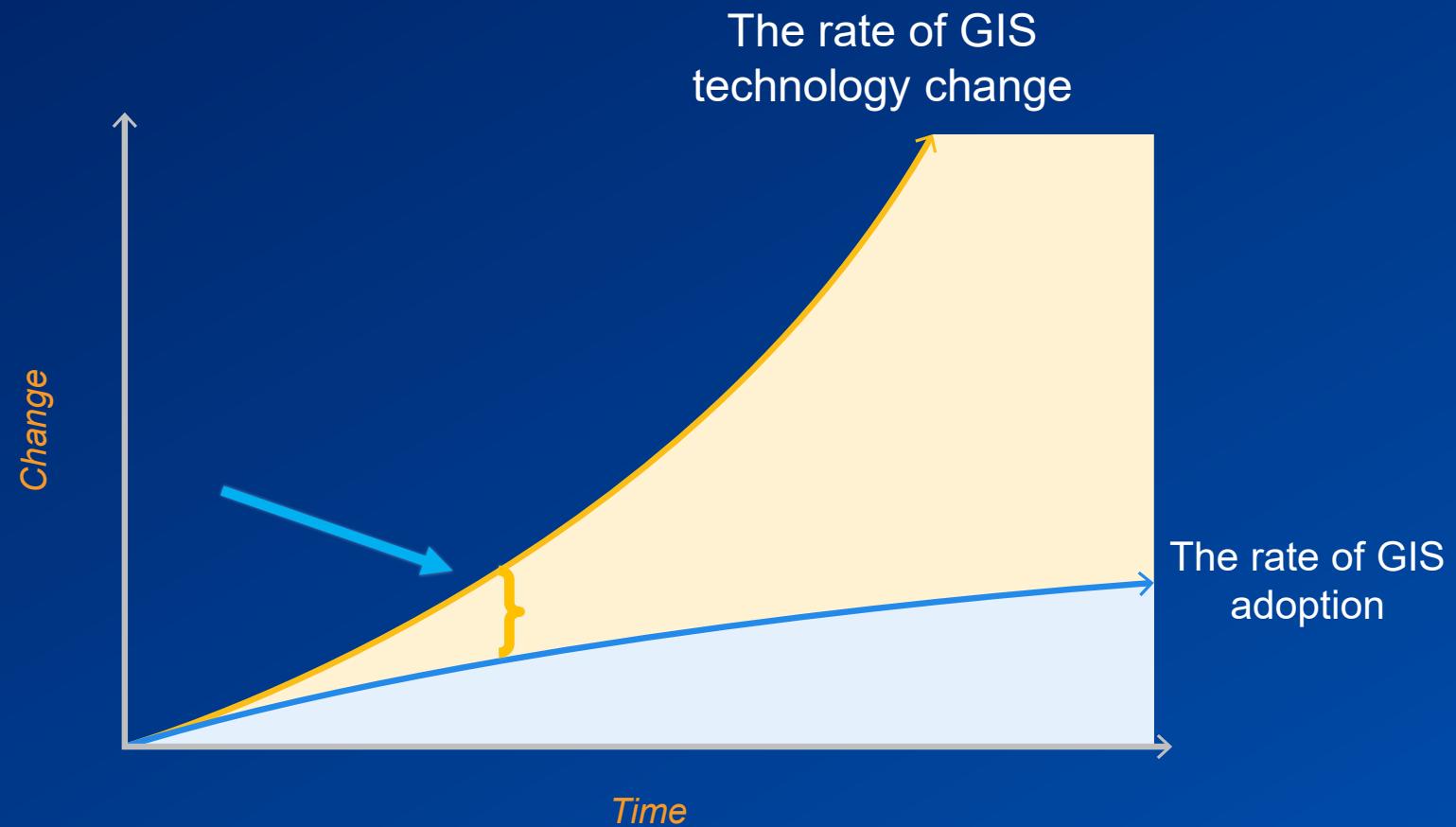
I thought I had
leadership
support, but
there is no
action.

We tried that six
years ago –
didn't work.

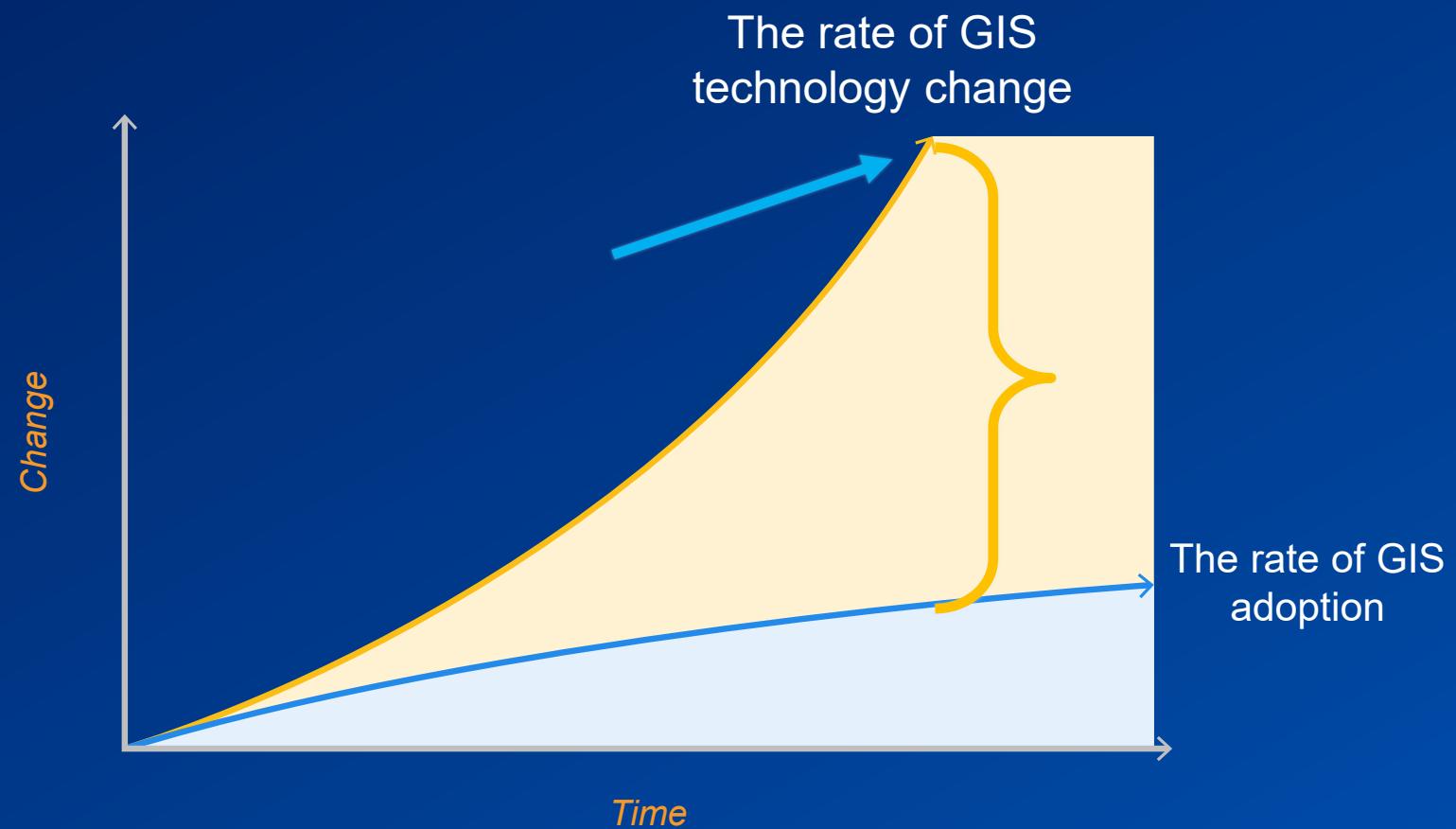
We'll have to
change our
process and
workflow.

They won't let go
of ArcMap

Technology change vs. organizational adoption



Technology change vs. organizational adoption



People-focused adoption benefits



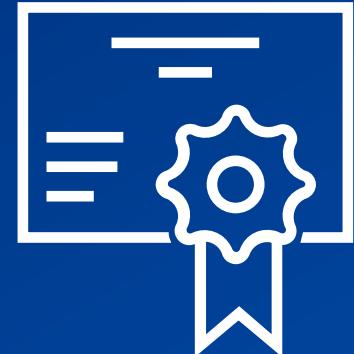
Faster Adoption

Individuals have the willingness and knowledge needed to quickly adopt new technology workflows.



Broader Adoption

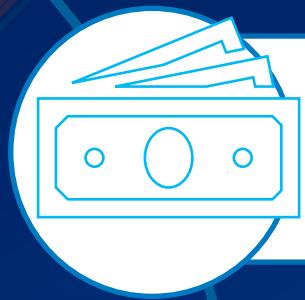
The number of new technology users consistently grows to meet or exceed adoption targets.



Higher Proficiency

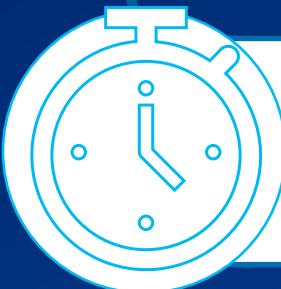
Users efficiently produce the expected output and find new ways to apply ArcGIS capabilities.

Impacts of People-Focused Change Management



2X

More likely to stay on or under budget



5X

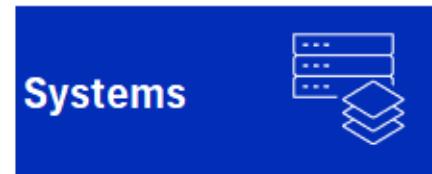
More likely to stay on or ahead of schedule



6X

More likely to meet or exceed project objectives

Geospatial Program Framework



Strategy & Executive Sponsorship

Organization

Well Architected Framework (WAF)

Awareness & Promotion

Knowledge & Skills Development

Investment and ROI

Policies & Standards

Innovation & Modernization

Communication & Collaboration

Building Capabilities

Value & Alignment

Processes & Procedures

Data & Information Product Management (SOR)

Adoption

Human Capital Management (HCM)

Initiative Prioritization

Controls & Metrics

Insights & Analytics (SOI)

Culture

GIS Patterns of Use

Solution Portfolio (SOE)

Delivery & Operations

Web GIS Operations & Management

Advocacy

Leadership Development

Geospatial Strategy Overview

Understand

1. Mission *(How to define success)*

To build, maintain, and proactively support a comprehensive Enterprise Geographic Information System that promotes information sharing and the effective use of geospatial technology for the benefit of our partners, our customers, and our community.

Guiding Principles

Self-sustained | Cost Effective | Customer Focused | Open | Innovative

Goals and Outcomes

- Establish and maintain a modern Enterprise GIS infrastructure
- Encourage and enable innovation
- Provide a trusted, authoritative source of geospatial information
- Enable collaboration between partner agencies and the public
- Provide easy and intuitive access to information

3. Strategy *(How to achieve success)*

Technology

- Implement a redundant enterprise geodatabase
- Deploy highly available development, test, and production environments
- Transition to WebGIS workflows to deliver geospatial solutions
- Leverage new technical capabilities to support business needs

Outcomes

- Establish a modern Enterprise GIS infrastructure
- Improves access to maps, apps, and analysis
- Encourage and enable innovation
- Expands analytic and real time capabilities to the Consortium

Process

- Replace traditional custom first approach with COTS first
- Democratize the management of authoritative data
- Provide access to self service mapping portals, data, and services
- Formalize the authoritative content publishing workflows

Outcomes

- Maintain a modern Enterprise GIS Infrastructure
- Encourage and enable innovation
- Provide a trusted, authoritative source of geospatial information
- Provide easy and intuitive access to information

People

- Provide training and support for self-service tools to end users
- Provide access to formal and informal training to LOJIC staff and partners
- Establish workflows and knowledge transfer that encourages collaboration
- Maintain business and technical governance and stakeholder engagement

Outcomes

- Maintain a modern Enterprise GIS infrastructure
- Enable collaboration between partner agencies and the public
- Provide easy and intuitive access to information
- Encourage and enable innovation

4. Roadmap *(Plan of action)*

Q4 2019 – Q1 2020

Establish the Foundation

- Deploy high availability infrastructure
- Migrate from legacy to new system
- Establish new workflows
- Provide ongoing training and support
- Test new capabilities

Q1 2020 – Q3 2020

Build Capability

- Maintain Enterprise infrastructure (Engage with Premium Support)
- Real Time Workshop and Training
- Geoanalytics Workshop and Training
- Routing support
- Dashboards Workshop
- Enable self service tools and security

High Value

Quick Wins

Q3 2020 – Q1 2021

Extend Capability

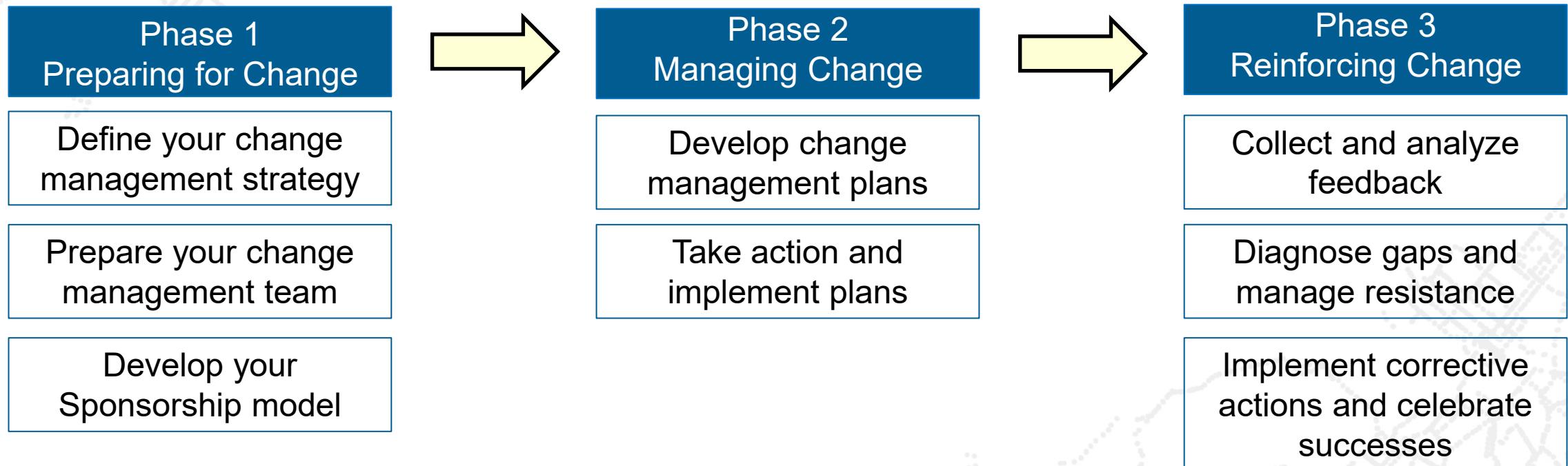
- Begin upgrade planning
- Prototype geoanalytics solutions
- Prototype real time solutions
- Provide ongoing training and support
- Automation and scripting support

Plan

Act

Prosci three-phase change management process

Ability to listen, communicate with people in ways they understand, to develop good relationships



Driving ArcGIS adoption through individual adoption. . .



Awareness



Desire



Knowledge



Ability

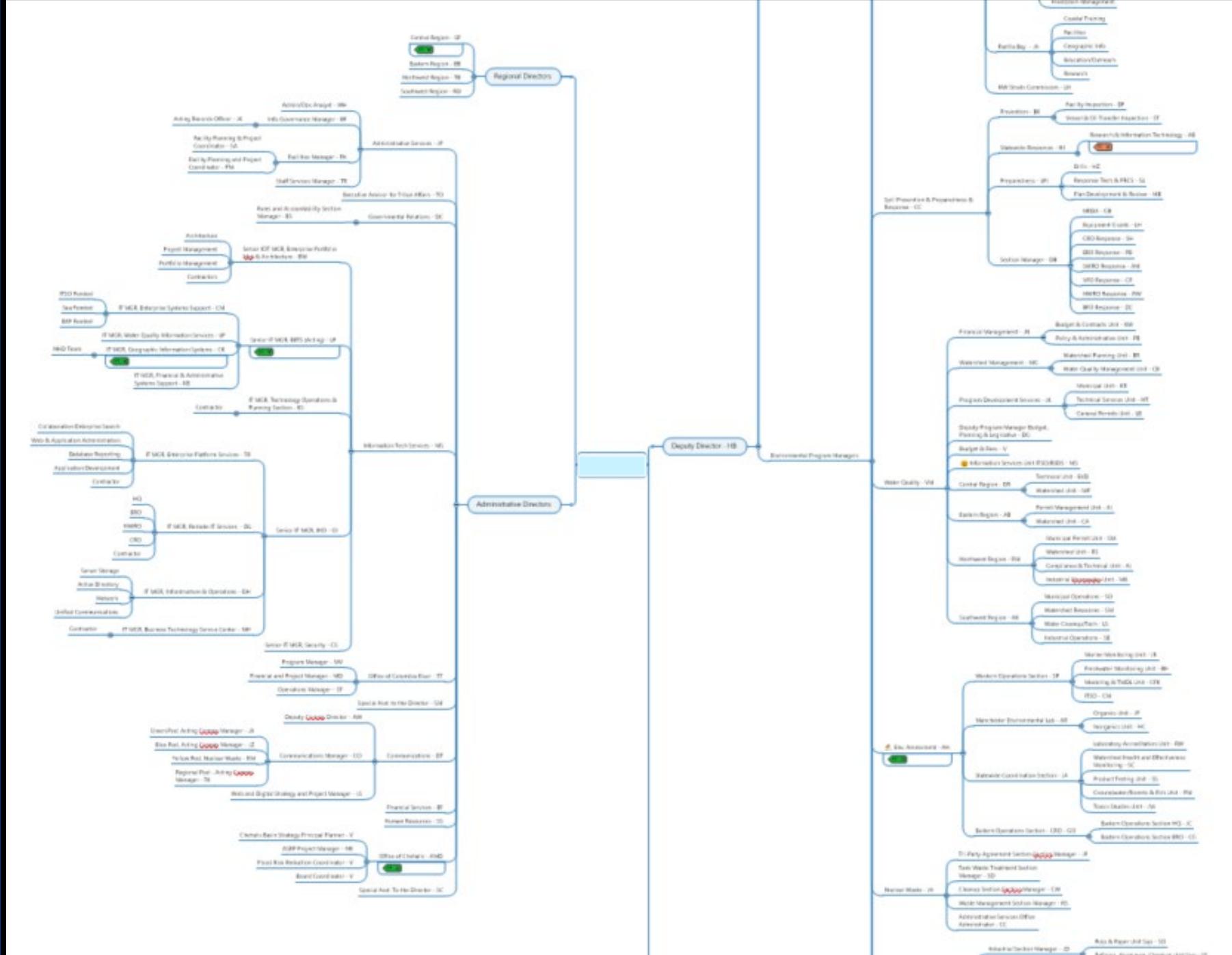


Reinforcement

Success - Outreach

Sponsorship and Communication

Advocacy



Advocacy



Communication Components

Senders and Audiences

Key Messages

Various Channels of Communication

Feedback Channels

Alignment of activities and communications

Sharable Communication Tools

Metrics of Success

Success – Perceived Value

Visibility

Visualize

Mapping and visualization



Understand locations and relationships with maps and visual representations

Data management



Collect, organize, and maintain accurate locations and details about assets and resources

Design and planning



Evaluate alternative solutions and create optimal designs

Analytics



Discover, quantify, and predict trends and patterns to improve outcomes

Constituent engagement



Communicate and collaborate with citizens and external communities of interest

Sharing and collaboration



Empower everyone to easily discover, use, make, and share geographic information

Monitoring



Track, manage, and monitor assets and resources in real time

Decision Support



Gain situational awareness, and enable information-driven decision-making

Field mobility



Manage and enable a mobile workforce to collect and access information in the field

Crafting Business Outcome Statements

Minimize
or
Increase

Amount

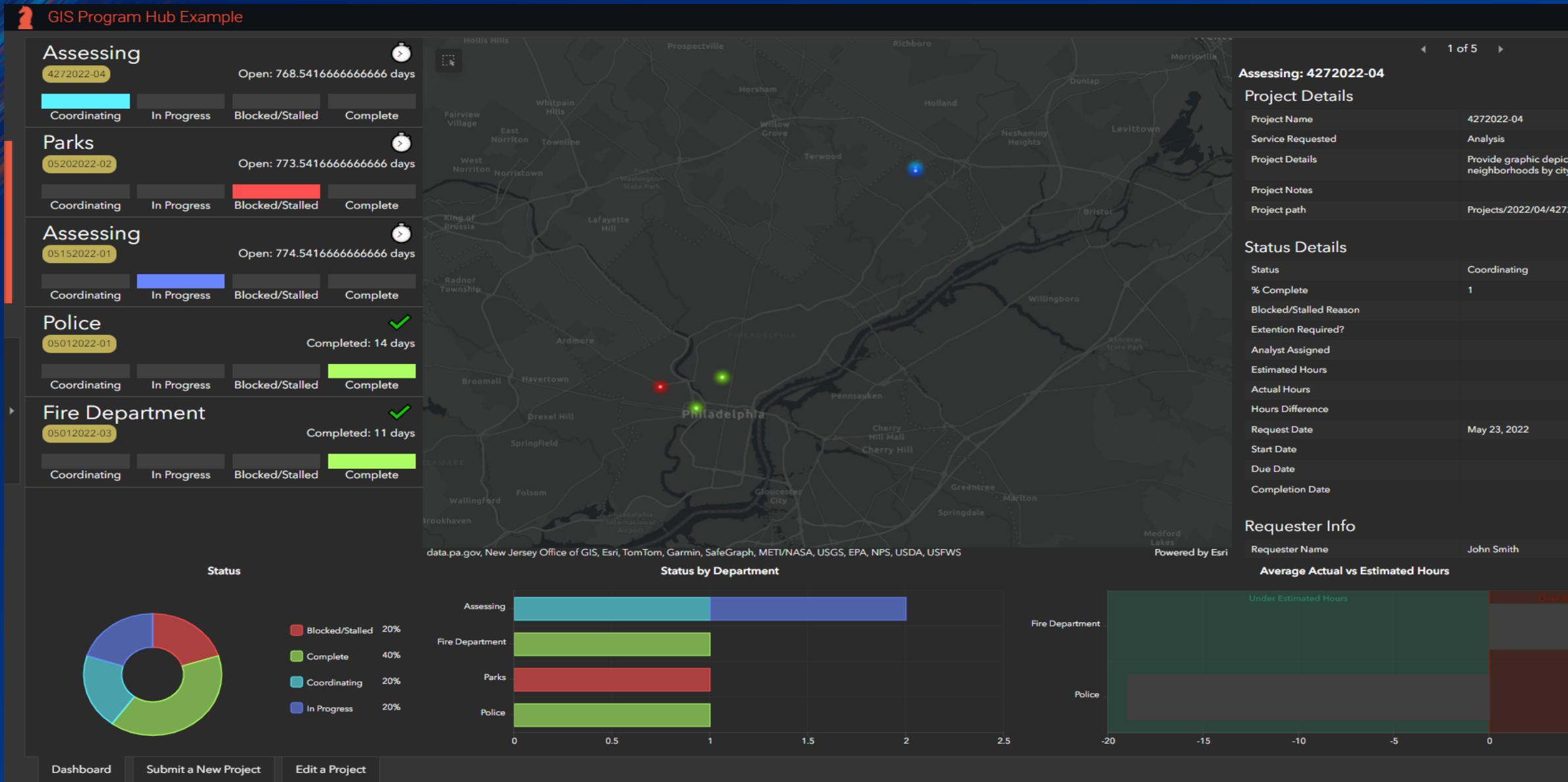
Number

Time

Likelihood

Frequency

Risk



Like what you see? Make your own version using these resources: Copy this dashboard ([Link](#)) & Download the S123 XLS Form ([Link](#))



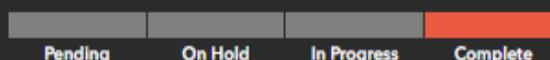
Geospatial Strategy

Initiative Progress

Define Project Tracking Process

Build Capacity

Establish a process for tracking initiative progress.



Workforce Development

Build Capacity

Establish an organization knowledge hub to showcase and promote training resources and opportunities.



Establish and Support Geospatial Community of Practice

Build Capacity

Empower the workforce to build and expand GIS knowledge through a community of practice. Find GIS power users and leaders within the organization to lead it.

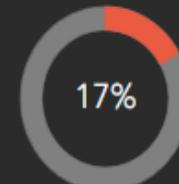


Qualify Automation Opportunities

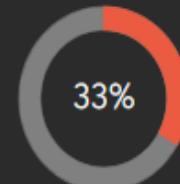
Build Capacity

Determine which workflows have potential for automation and conduct an estimated level of effort to accomplish.

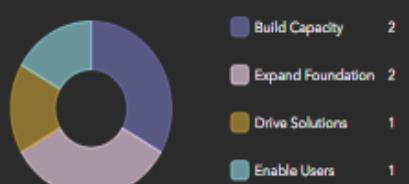
Initiatives In Progress



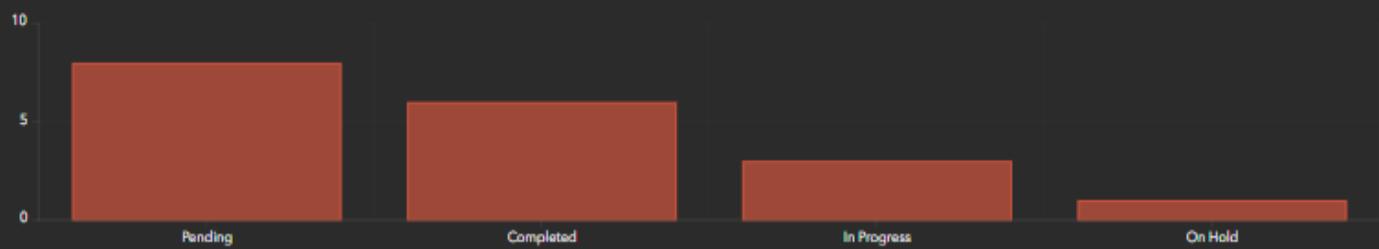
Completed Initiatives



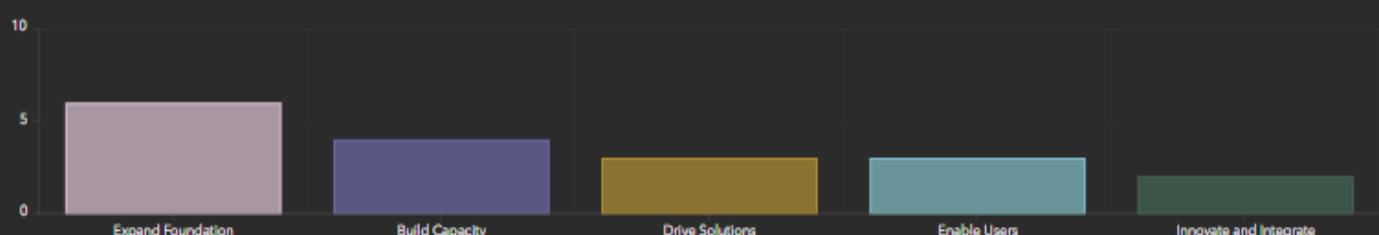
Completed Initiatives by Strategic Theme



Initiatives by Status



Initiatives by Strategic Theme



Departments Supported

5

Pending Requests

5

62.5%

In Progress Requests

2

25%

Completed Requests

1

12.5%

Share this card



Success – Sustaining Change

Maintain Momentum



We're HUMAN!

Habits rule our behaviors!

Maintain Momentum

- **Reinforcement** – Success Stories, Feedback/Analysis/Actions, IS...DOES...MEANS
- **Metrics** – Scorecard of activities, Visible accomplishments, You Get what you Measure
- **Ownership by Leaders** – Feed them communication content, Provide Apps for Leaders!
- **Proactive Resistance Management** – Identify one or two key influencers and work hard to earn their trust

Five Elements of Successful Change



Resource Links

Success Stories

- [Organizational Support is Key to Initiative's Success](#)
- [Proactive, Unified Approach to Modernizing GIS](#)

Adoption Strategies Information

- [Informational Web page](#)
- [Brochure](#)

Workshops

- [Communicating & Collaborating for ArcGIS Success](#)
- [Building Organizational Agility and Enabling Change in a Geospatial World](#)
- [Creating Organizational and Geospatial Resiliency](#)



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