

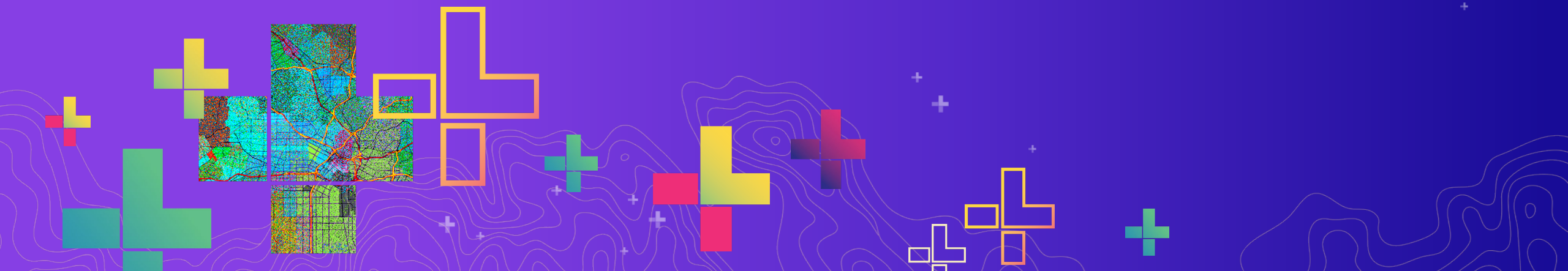


Getting Started with Hub & Enterprise Sites

Graham Hudgins | Product Engineer | ArcGIS Hub & ArcGIS Enterprise Sites

Rob Steilberg | Software Engineer | ArcGIS Hub & ArcGIS Enterprise Sites

2020 ESRI DEVELOPER SUMMIT | Palm Springs, CA

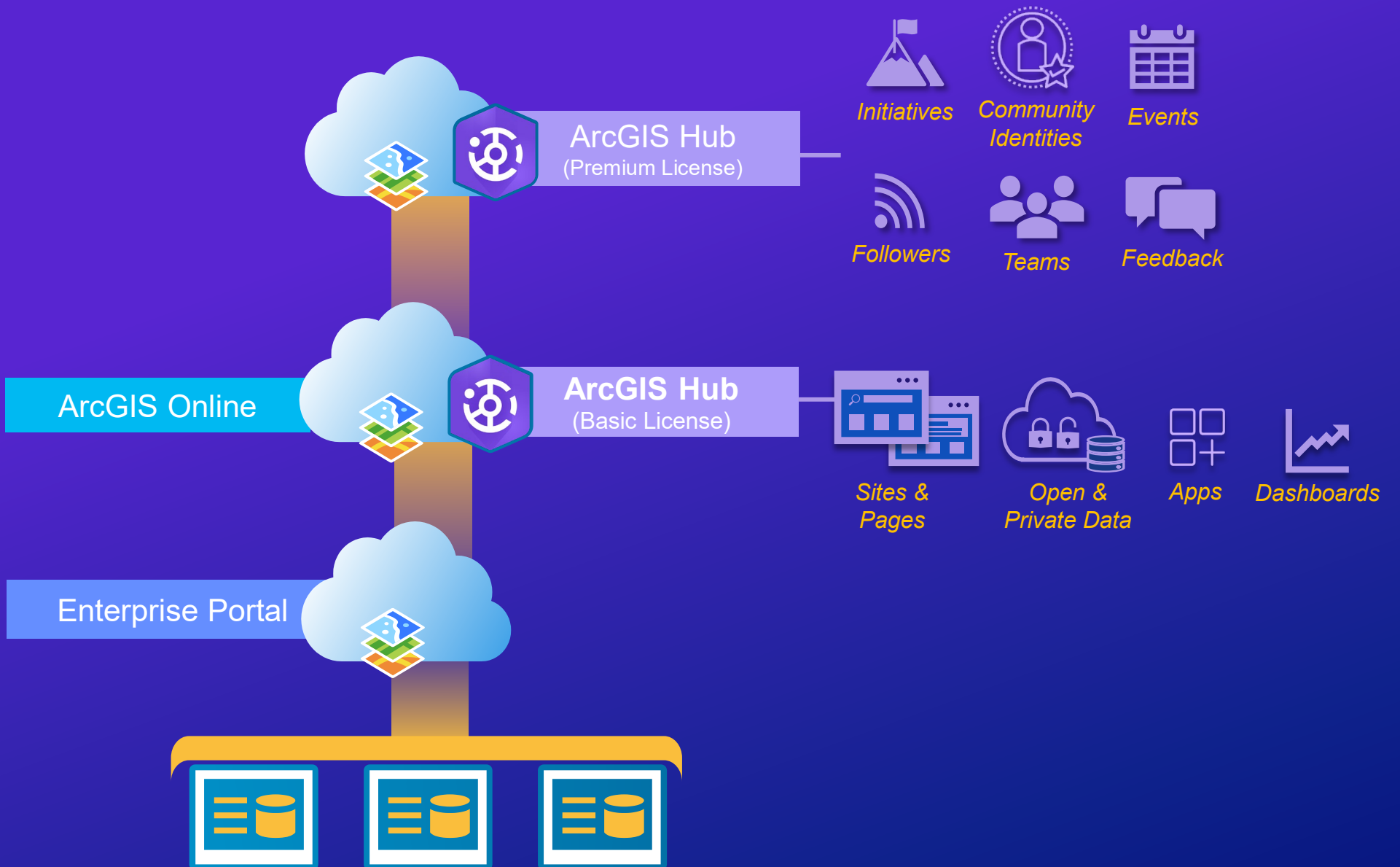


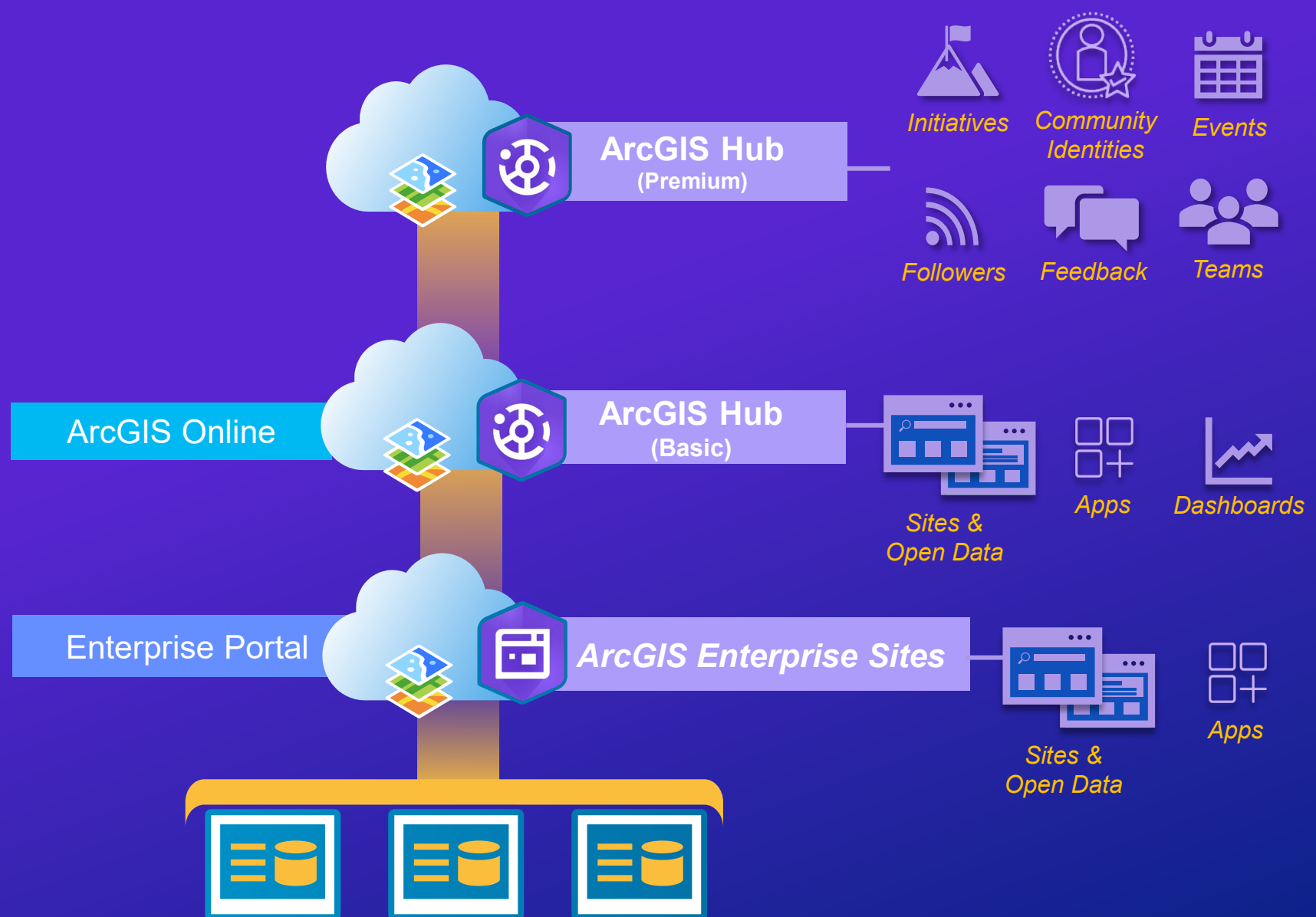
Sections

- High level introduction of Hub & Enterprise Sites
- The basics
- Picking and building your first site
- Evolving using more features
- Blending your site into your organization's site with a custom header
- Resources

ArcGIS Enterprise Sites is a capability that allows you to **create customized websites & webpages** to feature content from your portal to **non-GIS** users

ArcGIS Hub is an **easy-to-configure cloud platform** for organizations **to collaborate with their communities** to accomplish information-driven initiatives





When to use ArcGIS Hub vs ArcGIS Enterprise Sites

ArcGIS Hub



- When you can use ArcGIS Online – no credit burn, unlimited bandwidth downloads, we host the infrastructure
- Hub leads Enterprise Sites in features and functionality
- Hub is optimized for the web – CDN & SEO
- Hub contains 3 sub-systems that Enterprise Sites does not:
 - Custom domain (URL) support with HTTPS certificate generation
 - Expanded download system & cacheing over the platform*
 - Improved search experience over the platform*
 - Data.json / DCAT
- Hub has additional licensable features for external community engagement

ArcGIS Enterprise Sites



- Your IT policy prohibits you from using ArcGIS Online
- You work in a disconnected environment
- You need to control the web server

Basics

Build something with no plan to get a feel for things



Making your first Site

- **Creator User Types w. Essential Apps**

- **Privileges required**

- Create Content
- Create Group
- Share to Group
- View Org Groups
- View Org Items











- **Nice to have Privileges**

- Create group with update capabilities (*allow others to edit my site*)
- (Administrative) Assign users (*Force users into groups instead of invite*)

App bundles

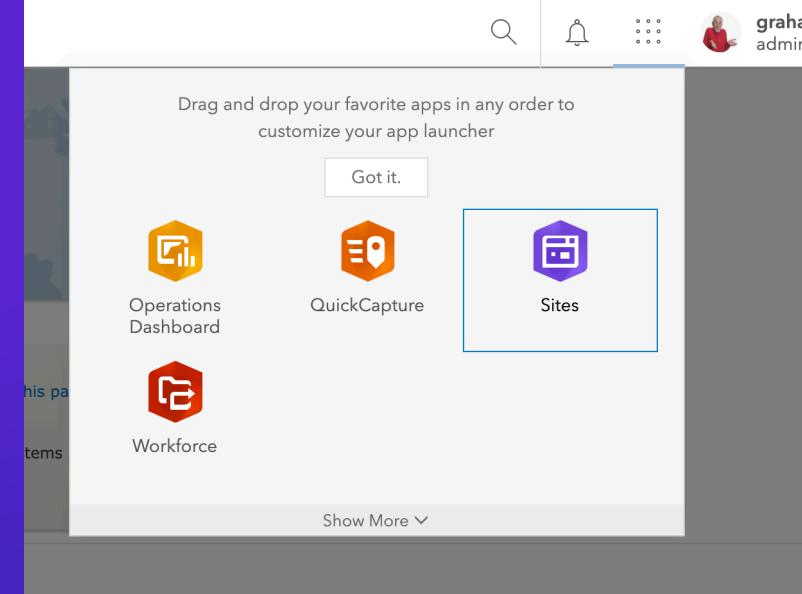
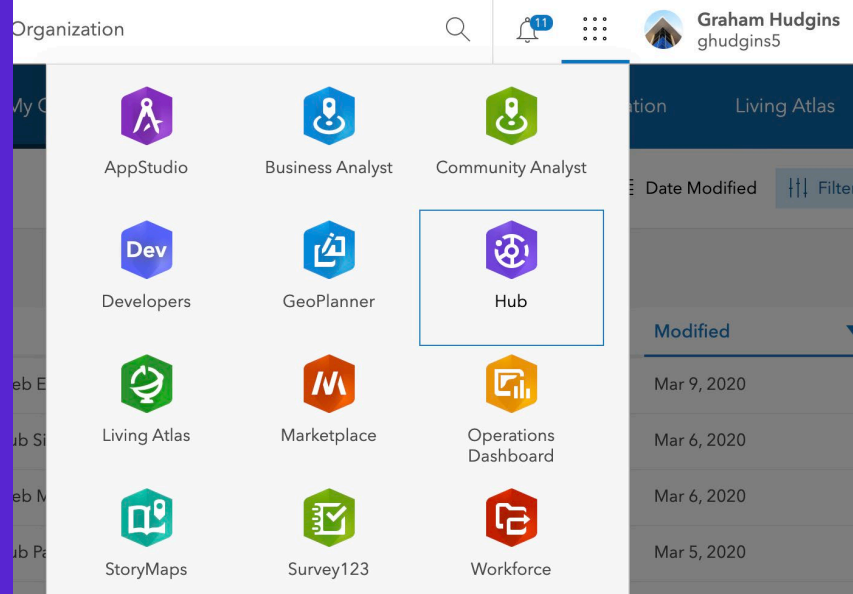
Essential Apps
0 assigned — 50 available | 50 total

Included applications

 AppStudio	 ArcGIS Items
 Configurable Apps	 Hub Sites and Pages
 Map Viewer	 Operations Dashboard
 QuickCapture Designer	 Scene Viewer
 StoryMaps	 Web AppBuilder

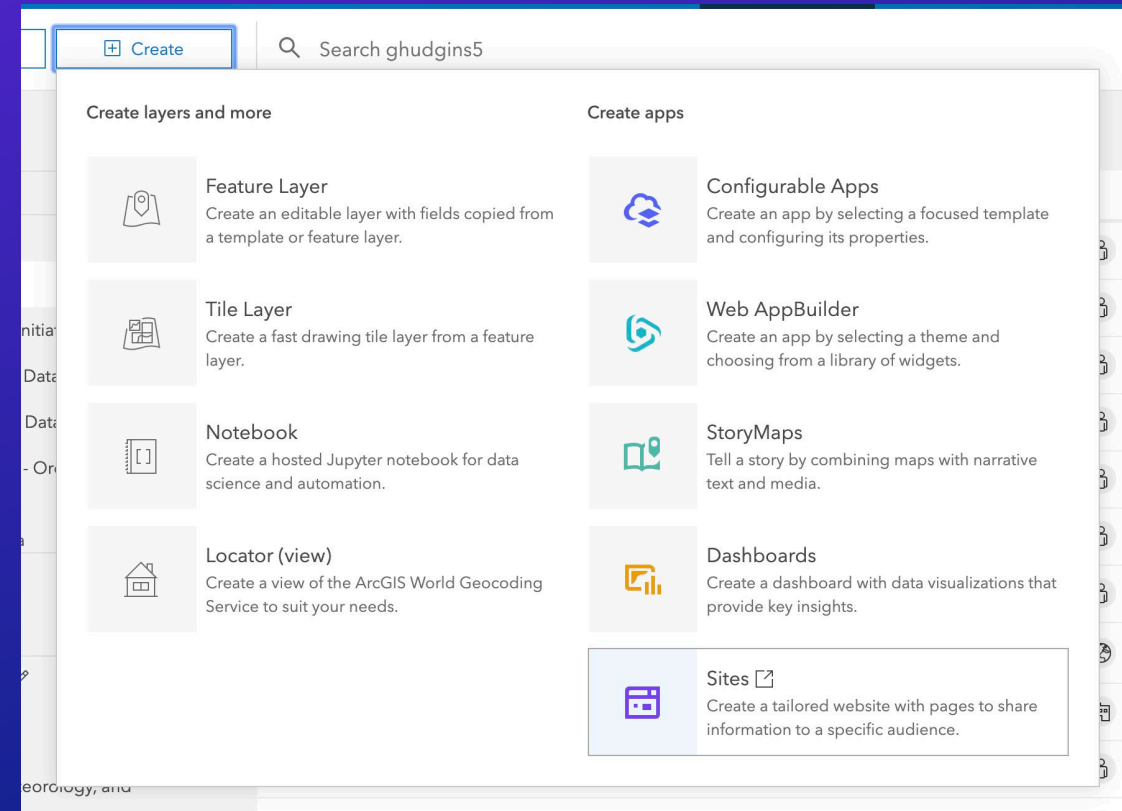
Compatible user types 1 [Manage](#)

Finding the app



1. App Launcher

2. Create Menu (Online only)



Overview & making your first site

Sites/Hub Overview is useful for making new Sites/Initiatives and returning to your already created work

Hub > Overview

New

Recent

Initiative

Gritty DCAT

Initiative

v200302

Initiative

Zebra

Initiative

tate-test-34

Initiative

v200228-2

Hub Overview

Washington, DC R&D Center (QA)

Initiatives

New

Manage

2,899

Initiatives

59 New - Last 30 Days

All Content

Manage

> 10,000

Items

712 New - Last 30 Days

Community

Manage

41

Individuals

1 New - Last 30 Days

Documentation

Create an Initiative

Engage your Community

View All

Do more with Hub

Hub Examples Gallery

GeoNet

Join the User Lab

Newsletter

Community Dashboard

2/26/2020 - 3/3/2020

Engagement Summary

40

Total Members

23

Last 7 Days

Sites > Overview

New

Recent

Site

anonymous downloads

Site

brollyworld

Site

some gritty site

Site

v200225

Site

New Python Site

Enterprise Sites Overview

Sites

New

Manage

16

Sites

4 New - Last 30 Days

All Content

Manage

46

Items

11 New - Last 30 Days

Documentation

About this Application

Create a Site

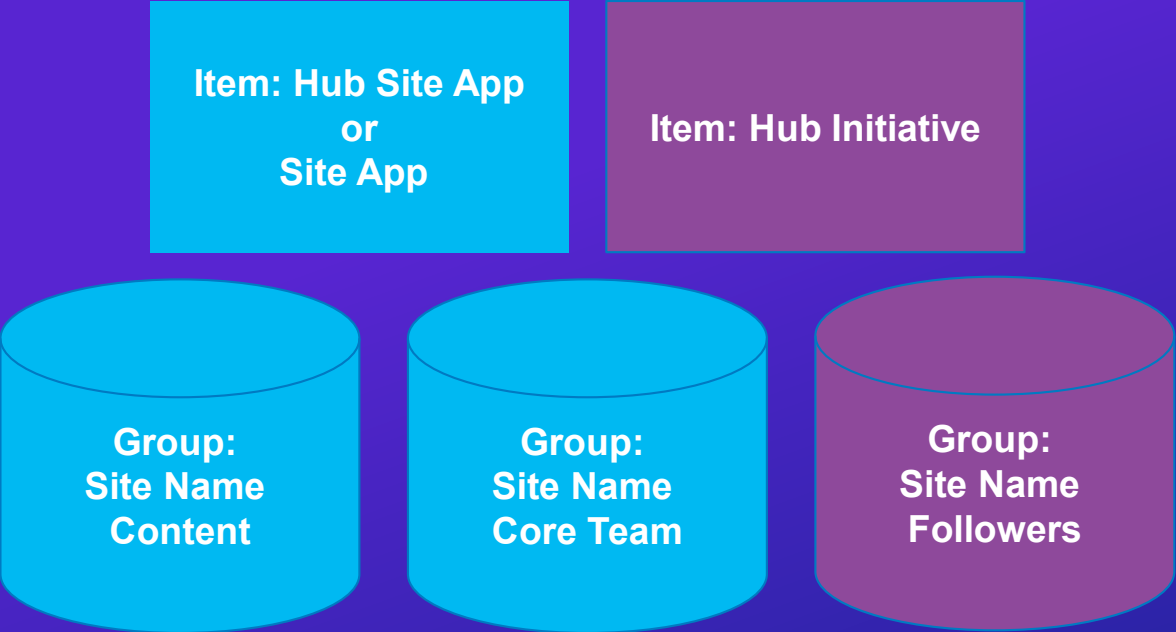
View All

Demo time

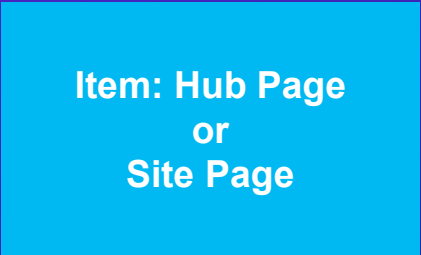
First site/page/event, getting around the app

App footprint in Portal / Online

Making a site/initiative



Creating a page



New event



Hub Premium Only

Hub Basic & Enterprise Sites

Impact on ArcGIS Online / Portal

- **New Site...**



- Hub Site Application / Site Application
- Hub Initiative (Hub Premium only)
- Core Team group
- Content group
- Followers group (Hub Premium only)


- **New Event (Hub Premium)...**

- Event group (Hub Premium)


- **New Page...**

- Hub Page Item / Site Page Item

<input type="checkbox"/>	Title		Modified
<input checked="" type="checkbox"/>	 Tech Transfer 2020	Hub Site Application	Dec 9, 2019
<input type="checkbox"/>	 Tech Transfer 2020	Hub Initiative	Dec 9, 2019




Tech Transfer 2020 Followers


Owner: [ghudgins_cityx](#)
Created: Dec 9, 2019 Last Updated: Dec 9, 2019
Viewable by:  Everyone (public)

This group enables followers of Tech Transfer 2020 to upload & share content and easily communicate with each other.

[Delete Group](#)




Tech Transfer 2020 Core Team


Owner: [ghudgins_cityx](#)
Created: Dec 9, 2019 Last Updated: Dec 9, 2019 Viewable by:  Organization

Members of this group can create, edit, and manage the site, pages, and other content related to Tech Transfer 2020.

[Delete Group](#)



Tech Transfer 2020 Content

Owner: [ghudgins_cityx](#)
Created: Dec 9, 2019 Last Updated: Dec 9, 2019
Viewable by:  Everyone (public)

Applications, maps, data, etc. shared with this group generates the Tech Transfer 2020 content catalog.

[Delete Group](#)

Picking your first site





**A planning exercise with stakeholders is a
fun interactive way to get consensus about your first site**

Pick something manageable to start



Demo time

Our first site.....with a purpose!

Public sharing

Stakeholder feedback

- Love the simplicity for the public
- Wants a similar sharing experience for private data for one of the departments
- Doesn't want to make a separate site for the internal department



Demo time

Hybrid public/private sites

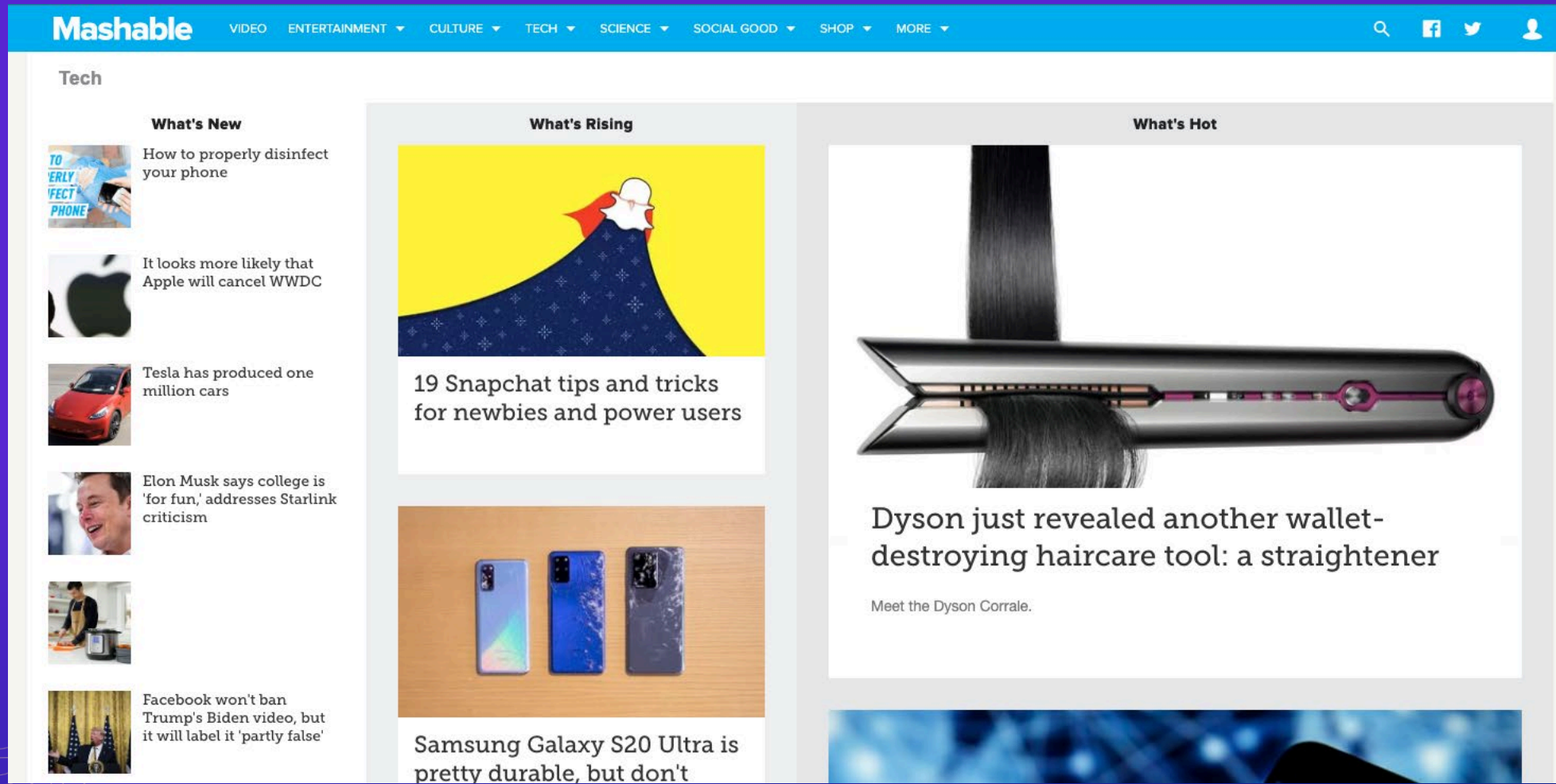


Preserving UX across your ecosystem

Maintain a unified user experience across your online presence with theming and custom headers



Example: Mashable



How can we extend our GIS into an existing ecosystem without feeling like it's a "separate" website?

DEMO: start with an ArcGIS Hub out-of-the-box site

- No use of any custom HTML or CSS yet...



Looks pretty good! But maybe not good enough for stakeholders...



Let's build our own custom header

Mashable

VIDEO

ENTERTAINMENT ▼

CULTURE ▼

TECH ▼

SCIENCE ▼

SOCIAL GOOD ▼

SHOP ▼

MORE ▼



Building your custom header

- Copy and paste from source?
or
- Build from scratch?



Caveats

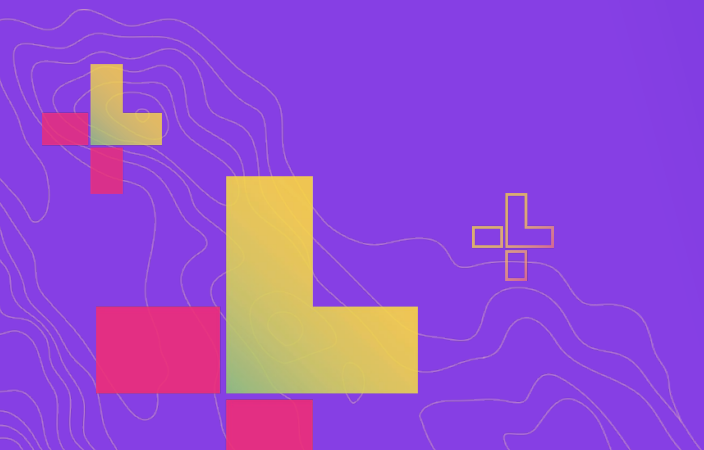
- Custom JavaScript is not available for app performance reasons
- Code might not be DRY across domains
- It's difficult to make an exact clone / re-implementation
- Mobile optimization



Code, resources, and tips

- **HTML and CSS used to build the custom header in this presentation:**
 - <http://esriurl.com/hubHeaderHtml>
 - <http://esriurl.com/hubHeaderCss>
 - <https://mashable-header-complete-dcdev.hub.arcgis.com/>
- **Great CSS resources**
 - **Flexbox:** <https://css-tricks.com/snippets/css/a-guide-to-flexbox/>
 - **CSS tricks** (down caret): <https://css-tricks.com/snippets/css/css-triangle/>
- **Bootstrap** (note that Hub uses 3.3.6)
 - Overview of Bootstrap grid system: <https://getbootstrap.com/docs/4.0/layout/grid/>
 - Bootstrap dropdowns: <https://getbootstrap.com/docs/4.0/components/dropdowns/>
- **Google fonts:** <https://fonts.google.com/>
- **ARIA:** <https://www.w3.org/TR/wai-aria-1.1/>
- Remember to always make use of custom CSS classes to prevent colliding with native Hub CSS!

Resources



Example gallery

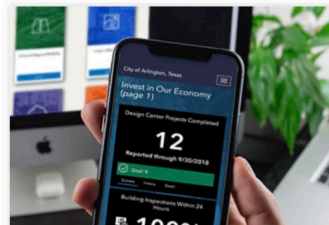
<https://hub.arcgis.com/pages/gallery>

Gallery

See how others are using Hub to communicate and collaborate

Recent ArcGIS Hub Examples

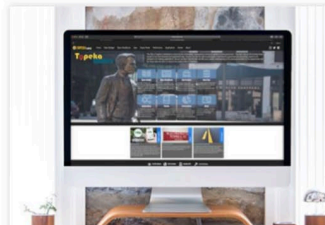
Or [browse by sector and type](#)



Arlington, Texas Performance Initiative

This site shows the metrics Arlington, Texas uses to measure the performance of their city

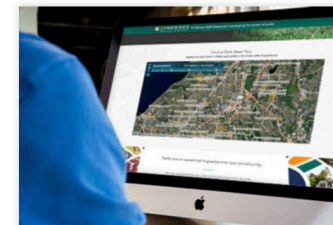
[View](#)



Topeka Open Data

This open data portal provides direct access to the City's financial and operational data.

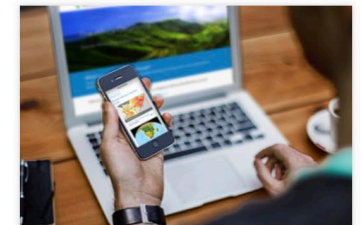
[View](#)



Lynnwood's 10 Minute Walk Campaign

A commitment to make sure everyone has access to a high quality park in Lynnwood.

[View](#)



Africa GeoPortal

The Africa GeoPortal is the best location for geospatial tools data and training, free for users working

[View](#)

What can you do with Hub?

Search across all public initiatives, events, data, documents, apps & maps to find out!

Examples by Sector

Resources

Learn Lessons & Paths available at <https://learn.arcgis.com>

Learn ArcGIS

Lesson Gallery

Teach with GIS


Graham

English

Gallery / Lessons

Get Started with ArcGIS Hub Premium

Create an initiative site using ArcGIS Hub and utilize premium functionality to connect with your community for better park management.



Author
Katie Thompson

Duration
40mins

Sacramento's Youth, Parks, and Community Enrichment department recently secured grant funding to add enhancements to William Land Park. As the department's community outreach coordinator, you've been tasked with learning what the community would like to see improved so that your team can make an informed decision on how to allocate funding. You've decided to start an initiative using ArcGIS Hub Premium so that you can create a mobile-first and accessible website for generating feedback from the public.

View final result

Recent

- 📌 Initiative

Developer Summit 2020
- 📌 Initiative

Esri R&D DC
- 📌 Initiative

Hub User Lab
- 📌 Initiative

hamhanding
- 📌 Initiative

v200505

🕒

Hub Overview

⚙️ Hub Settings

ESRI R&D Center

🏔️

Initiatives

New

Manage

961

Initiatives

21 New - Last 30 Days

📁

All Content

Manage

7,881

Items

153 New - Last 30 Days

👥

Community

Manage

10

Individuals

3 New - Last 30 Days

Documentation

Create an Initiative [↗️](#)

Engage your Community [↗️](#)

View All [↗️](#)

Do more with Hub

Hub Examples Gallery [↗️](#)

GeoNet [↗️](#)

Join the User Lab [↗️](#)

Newsletter [↗️](#)

Community Dashboard

3/3/2020 - 3/9/2020 ▾

Engagement Summary

ArcGIS Hub sites: Designing for Accessibility

Uncategorized

March 04, 2019



Katie Thompson,
Klara Schmitt

Creating accessible web content matters for everyone. If your organization uses ArcGIS Hub to create sites that share data and information related to internal projects or public initiatives, understanding and applying principles of accessible web design supports you in providing the best experience for everyone, whether or not they have a situational, permanent, or temporary disability.

What is accessibility?

From sighted individuals to aging generations, easily accessible, usable content is imperative to providing equal access to people everywhere. This is why many countries around the world are seeking to improve the accessibility of their web content by adhering to the Web Content Accessibility Guidelines (WCAG) and

<https://www.esri.com/arcgis-blog/products/arcgis-hub/uncategorized/arcgis-hub-sites-designing-for-accessibility/>



Thank you for watching

We look forward to hearing from you on GeoNet





esri

THE
SCIENCE
OF
WHERE

A full-page background image showing two divers in silhouette against a bright sun underwater. The divers are positioned in the center-right of the frame, with their bodies angled towards the left. The water is a deep blue, and the sun creates a strong lens flare effect in the upper center. The word 'Planning' is overlaid in white text on the left side of the image.

Planning



Up front conversations are vital

The web is someone's domain in your organization

Involving key stakeholders early helps ensure integration

You may get free site design advice/resources if you



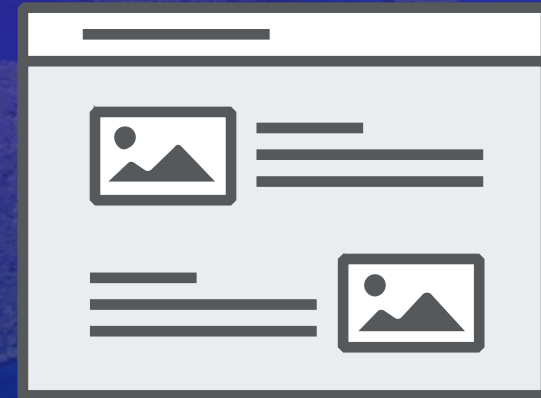


Two important questions that will drive your Site Map

- **Public sites – how will this site fit into your existing organization site? Will it?**
 - A cautionary tale: in your success you will likely have to confront this question even if you don't up front
 - Matching header systems is a good idea (even if it is branding)
- **Do you need a root site?**



Sites are purpose-built for each application with different requirements



Using the portal home app as your jumping off site



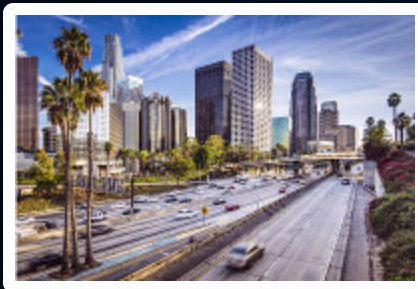
ArcGIS Enterprise Sites Demonstration Portal



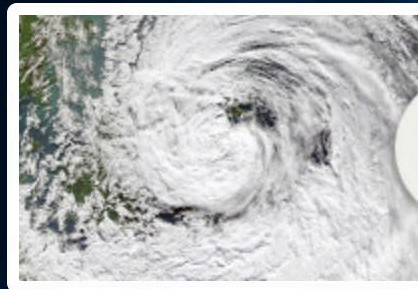
Crime Control Strategies



Fire & Emergency Services



Capital Projects



Hurricane Season



Demonstration
Gallery

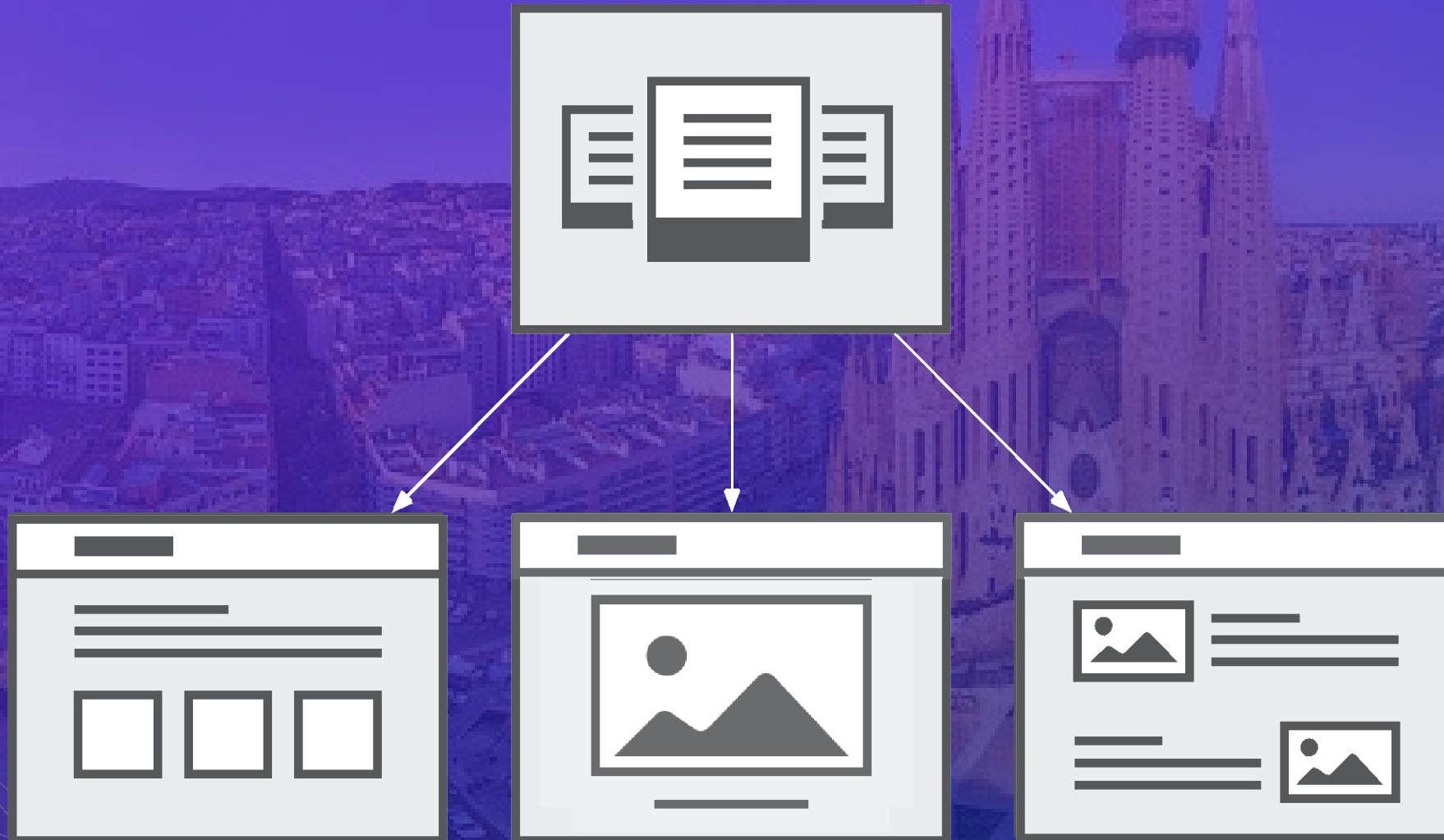


Template
Gallery



Information
& Training

Using the same header system on each site + portal home app root site



Using a site as the root site



Public Safety

Education

Environment

The District is using a combination of regulations, outreach, education, and incentive services to fulfill our mission. We work with residents, businesses, and institutions to promote environmentally responsible behavior leading to a more sustainable urban environment. We invite you to browse the data below, jump into government apps, create your own and share in our progress by engaging in some of our green programs.

Mayor

"When people remember the relentless single DC

Read More
Browse

We come
government
programs

Economic

The District

ABOUT

Press Releases

influence society and thrive
thorough and joyful learning
jump into government apps,

18

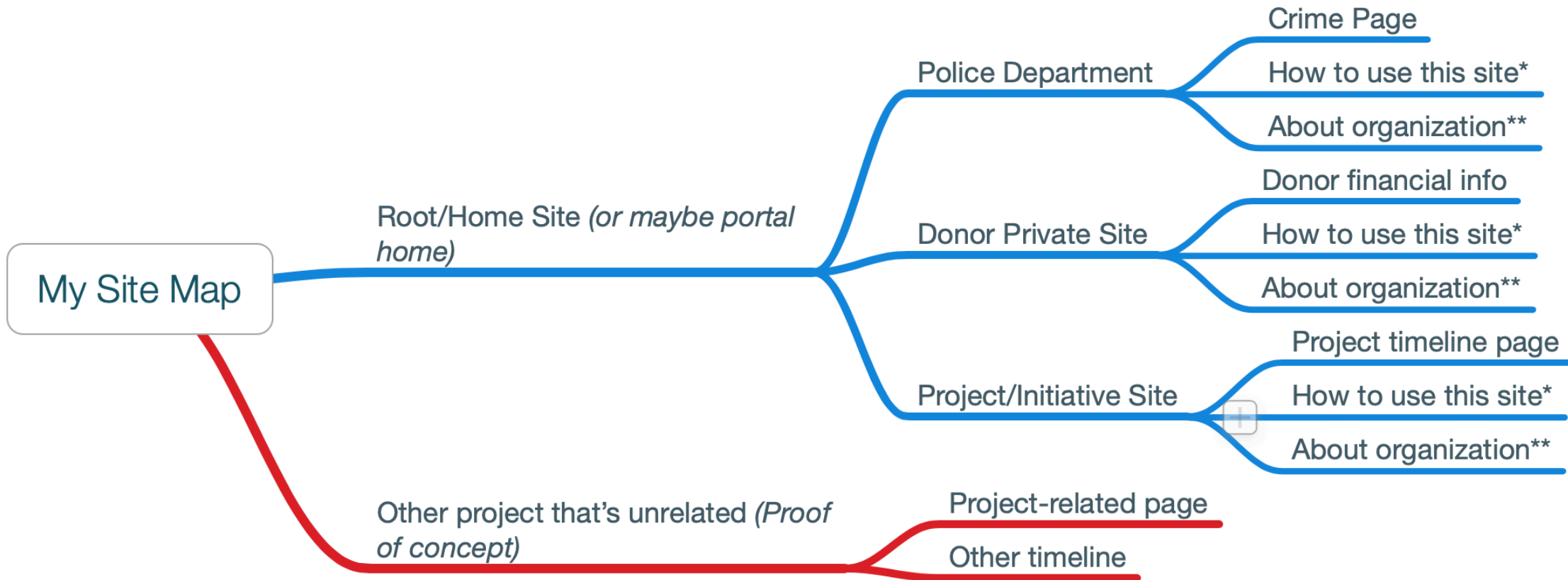
7

12,014

Don't forget, every site has a level underneath - pages



How to make a site map



PP: 6
hub: 544: 4eB

- Hbs Admin? Or, Admin
"Hub team"

- Init Mgr
• Prio
• explicit by user/site

? Site → Initiative
• upgrade?
• certain tabs blocked?

HB - Communicate - Site
+ Engage - Eng
+ Collaborate - X

Init Gre
P

Init Cont
P
J

Init Comm
Cory

+ Hub Team → Triumv
IC

Diagram illustrating the Hub Home structure and its components:

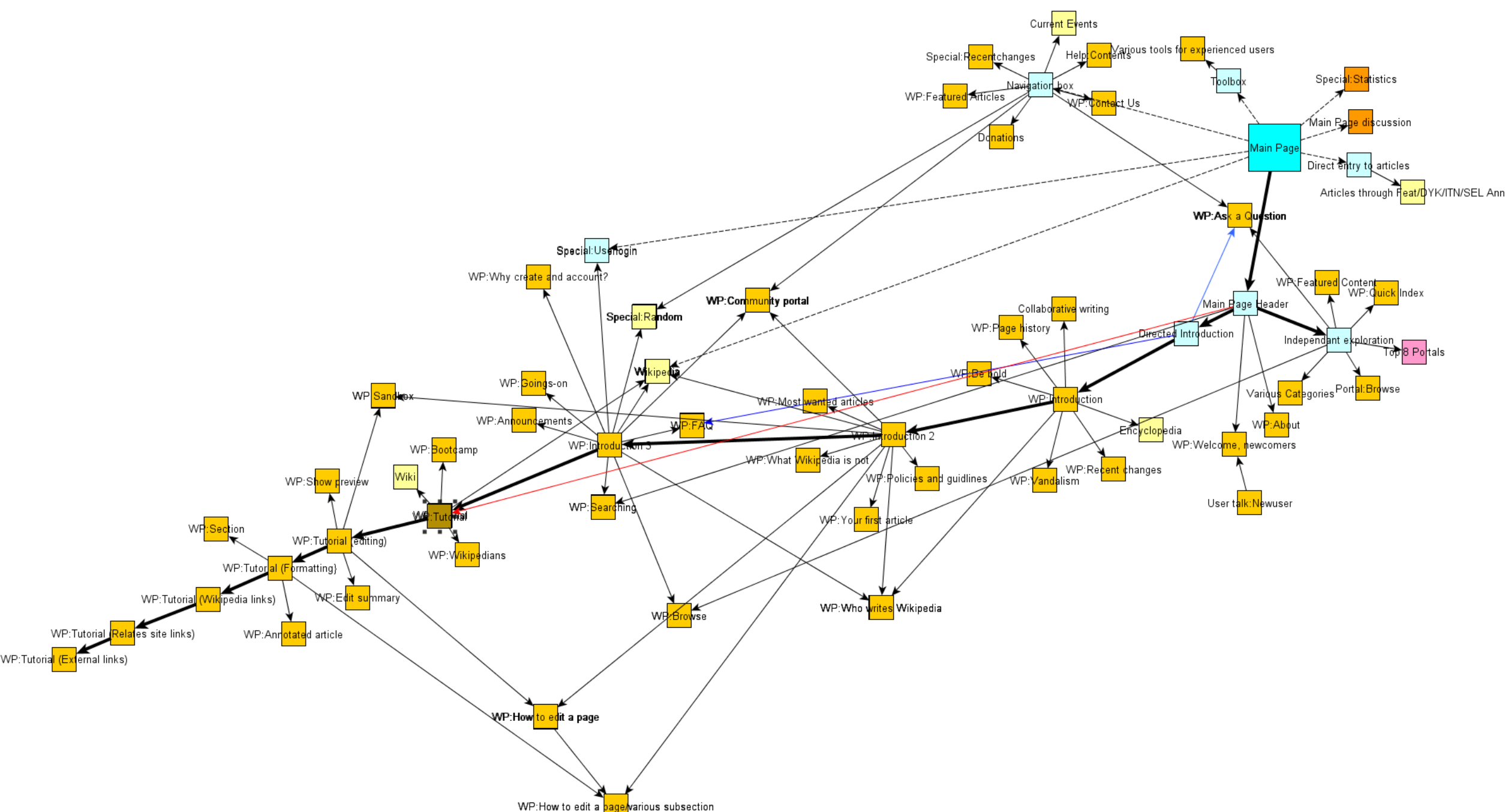
- Hub Home (Main Hub) connects to various sites and initiatives.
- Hub Home connects to **Site 1** (I1) via **Init Gre** (P).
- Hub Home connects to **Site 2** (I2) via **Init Cont** (P).
- Hub Home connects to **Site 3** (I3) via **Init Comm** (C).
- Hub Home connects to **Site 4** (I4) via **Init Gre** (P).

Key components and connections:

- Hub Home** (Main Hub) connects to **Site 1** (I1) via **Init Gre** (P).
- Hub Home** connects to **Site 2** (I2) via **Init Cont** (P).
- Hub Home** connects to **Site 3** (I3) via **Init Comm** (C).
- Hub Home** connects to **Site 4** (I4) via **Init Gre** (P).

Additional notes and connections:

- Site 1** (I1) connects to **Init Gre** (P).
- Site 2** (I2) connects to **Init Cont** (P).
- Site 3** (I3) connects to **Init Comm** (C).
- Site 4** (I4) connects to **Init Gre** (P).



Demo time

Building complex Sites/Initiatives