ArcGIS Dashboards: How will the Post-COVID19 World Make Better Decisions?

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TIME100
MOST INFLUENTIAL PEOPLE
2020

COVID-19 Efforts to Effective Response

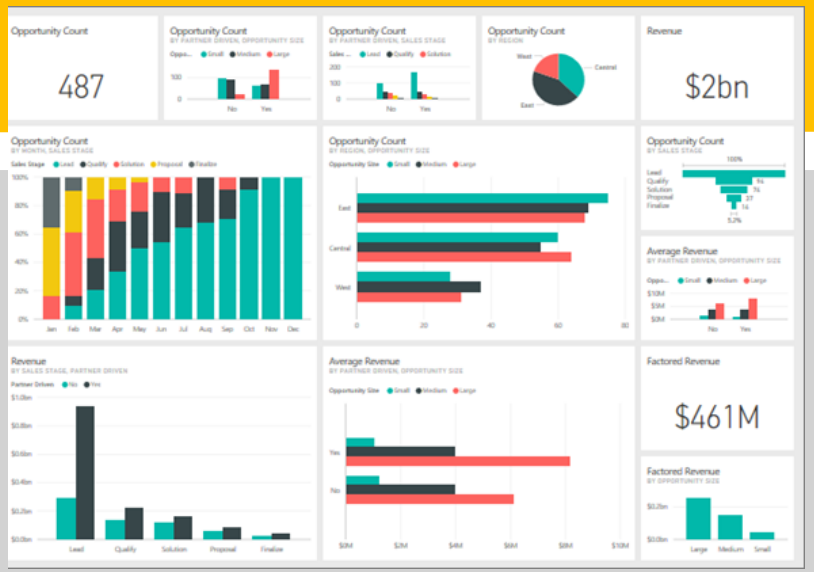
Gardner, a civil and systems engineering professor in the Whiting School of Engineering, led the team that built the COVID-19 Dashboard in late January.

Topics Covered

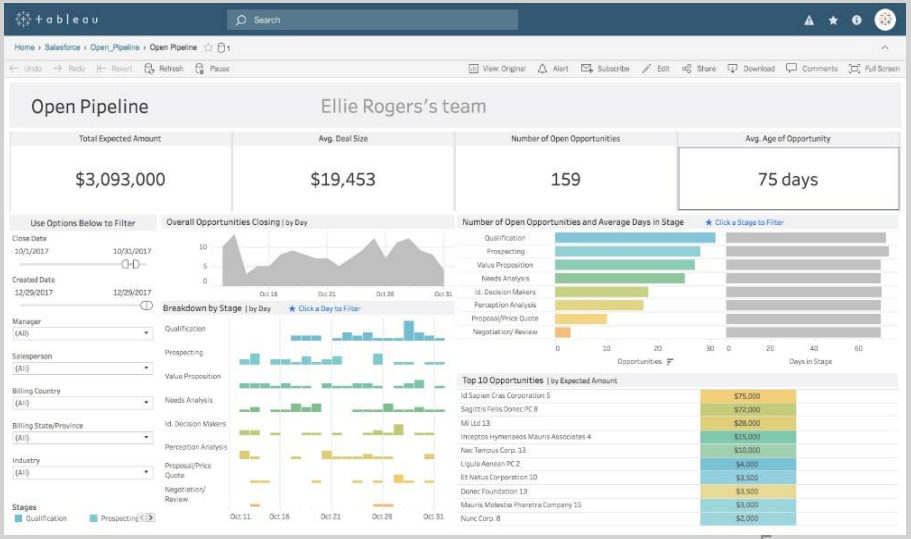
- Dashboards and Benefits
- Design Effective Dashboards
- ArcGIS Dashboard and Key concepts
- COVID-19 Case Example
- Learning and Tutorials
  - https://www.esri.com/training/catalog/search/
  - https://www.esri.com/arcgis-blog/products/ops-dashboard/mapping/create-first-arcgis-dashboards/

Dashboards

- Visual display of the most important information curated for one or more goals
- Designed, arranged, and stacked on one page
- Go to place to monitor key performance indicators (KPI)
- Quick and easy way to get real-time valuable information
- Facilitate at a glance information sharing and decision-making



Power BI



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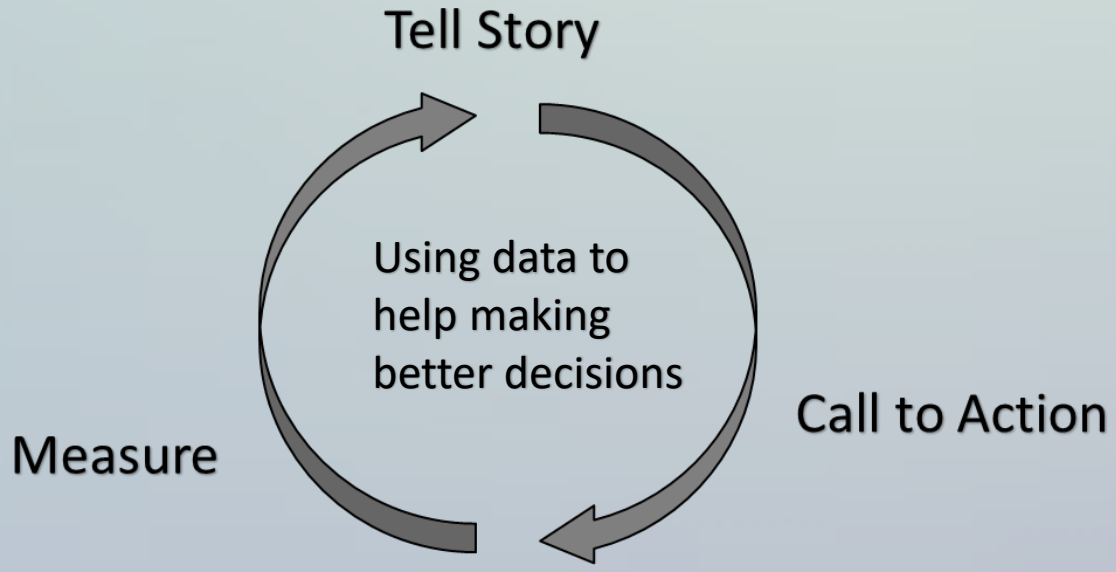
Dashboard Benefits

- Visibility
- Ongoing improvement
- Time saving
- Performance monitoring



Cognition and Visual Perception

- Brain processes visual information faster and more efficiently than text (Becker et al., 2011).

https://www.cambridgecognition.com/blog/entry/why-monitor-cognition-in-drug-development

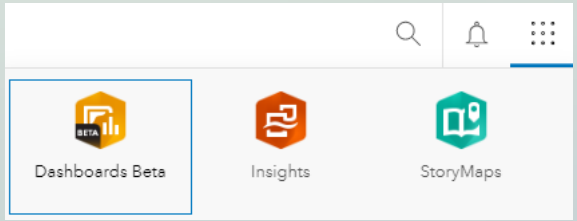
ArcGIS Dashboards

- ESRI as the industry leader of location intelligence products has made ArcGIS dashboard product.
- A spatial visualization tool to support performance monitoring, information sharing, and decision support on one page.
- Web client application of ArcGIS Online
- Configurable and customizable without the need to code

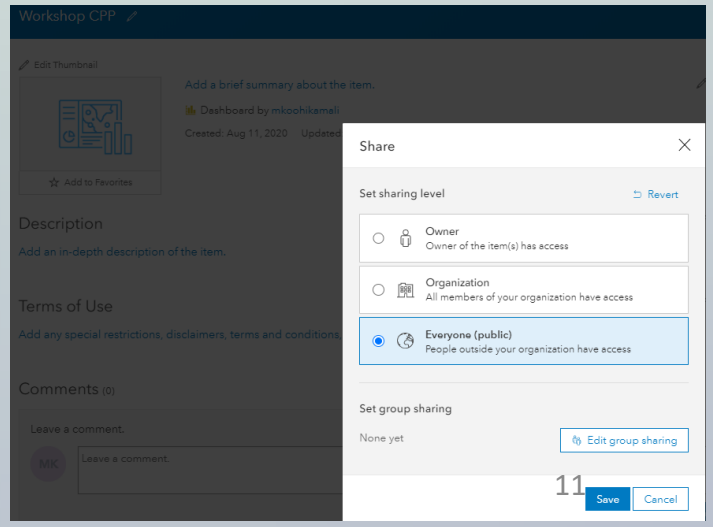
How to Make an ArcGIS Dashboard?

- Get an ArcGIS Online License (CPP has free educational licenses)
- Log-in to ArcGIS Online

- Load ArcGIS Dashboard



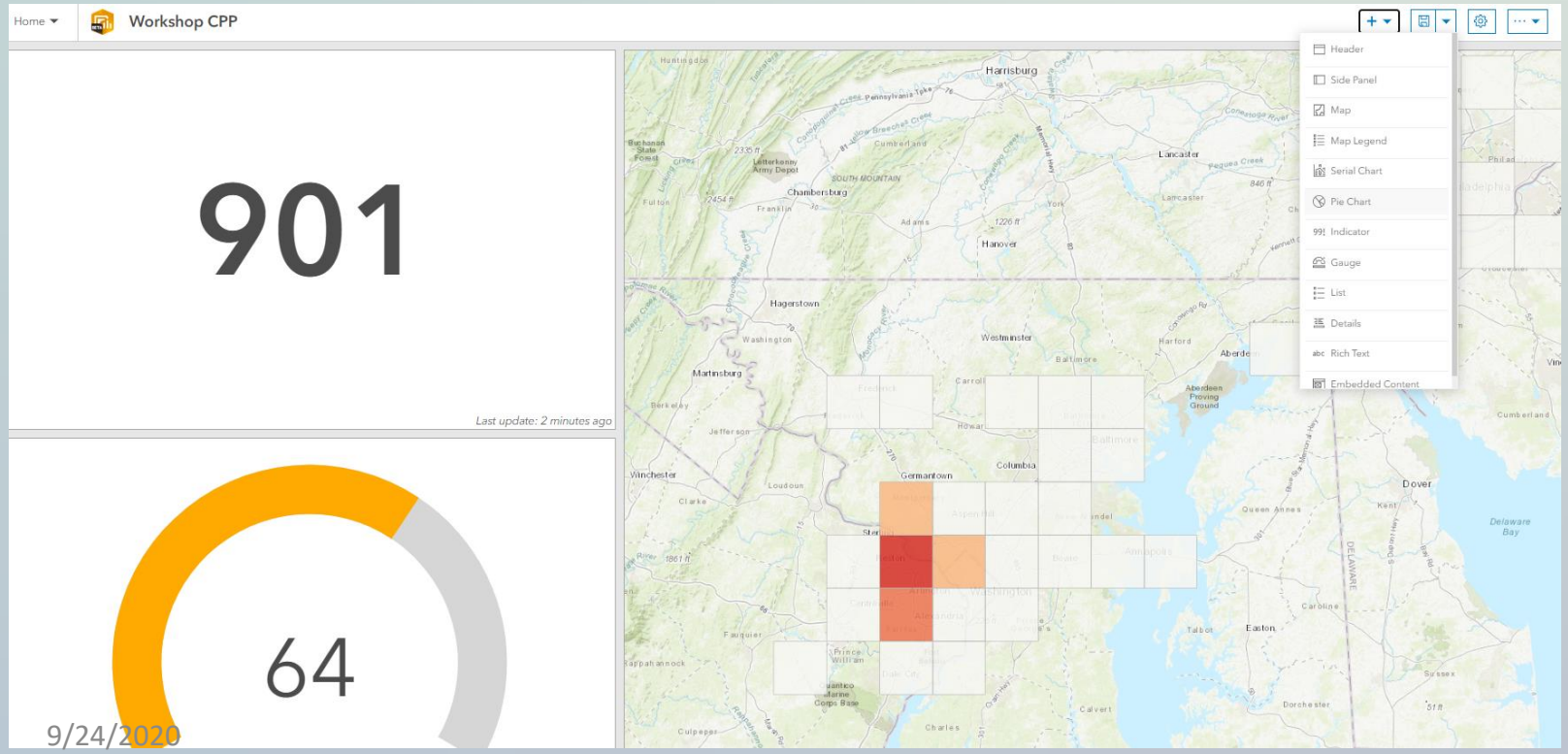
- Create a Dashboard



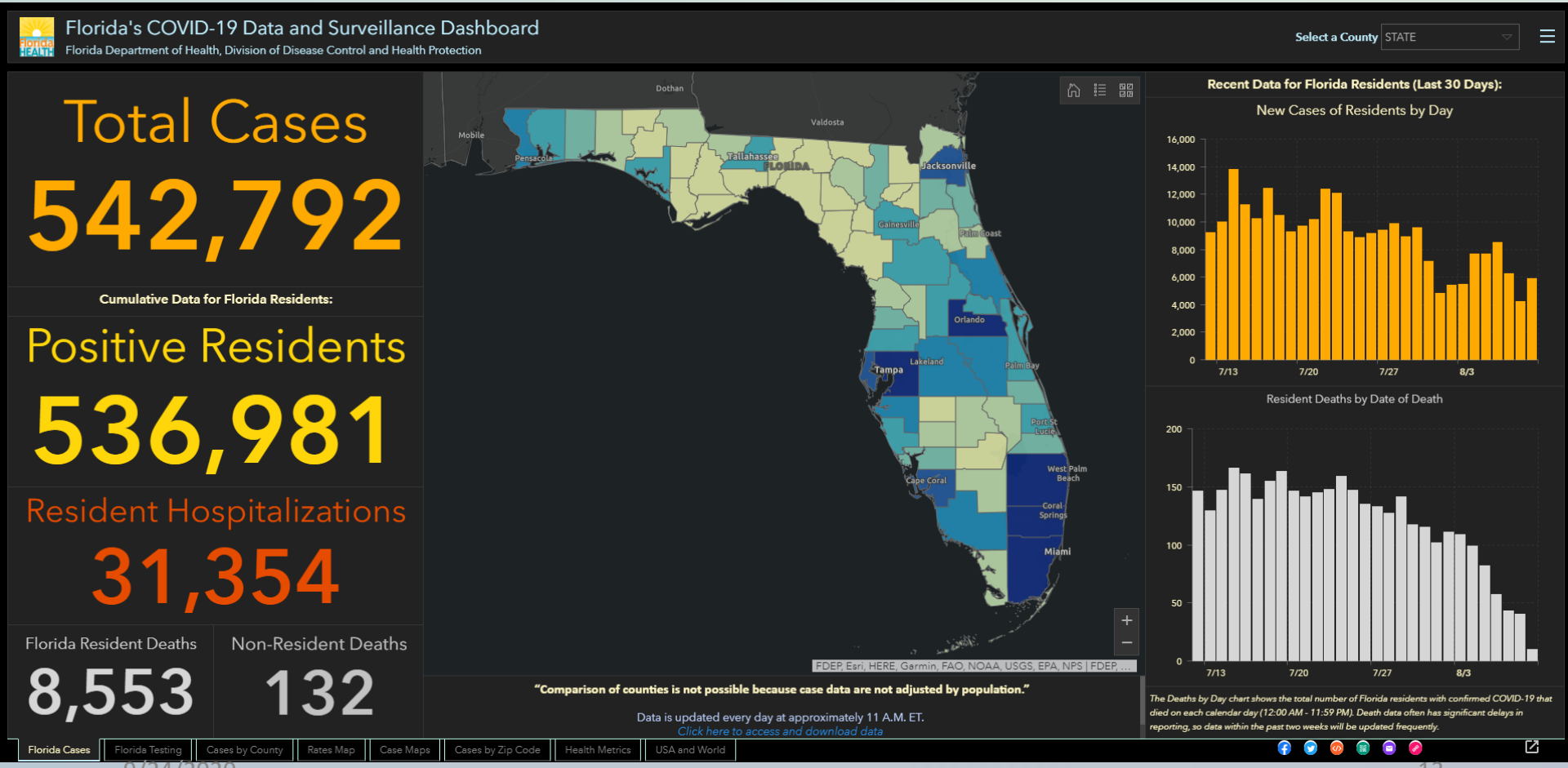
- Share and Publish

ArcGIS Dashboard Elements

- Based on an existing map layers in ArcGIS Online
- Add Desired elements based on the added map(s) such as Gauge, Chart, Indicator, etc.)

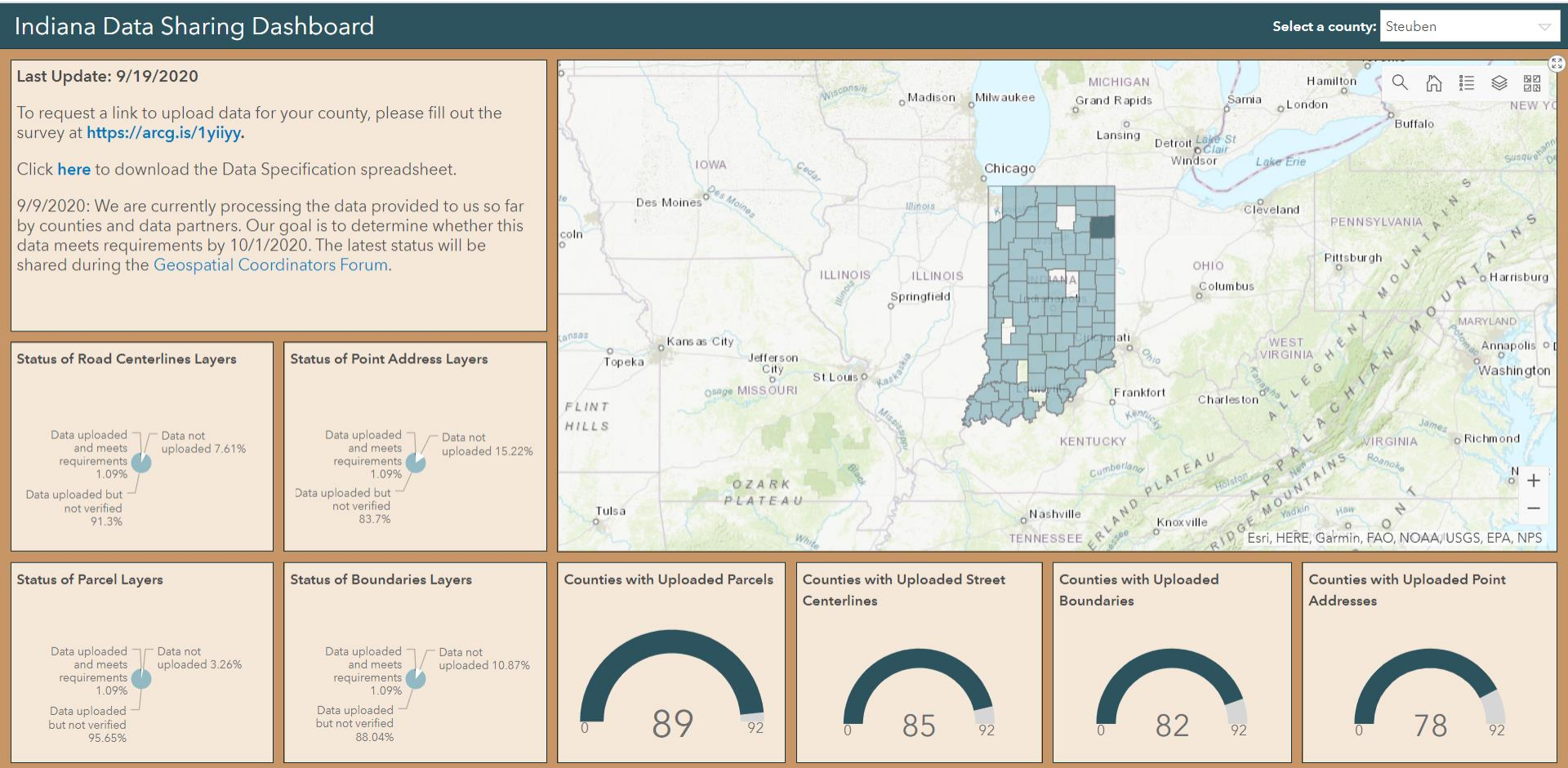


Florida's COVID-19 Data and Map Dashboard



Enhancing Civic Participation with Performance Dashboards of City of Arlington

Indiana Data Sharing Dashboard

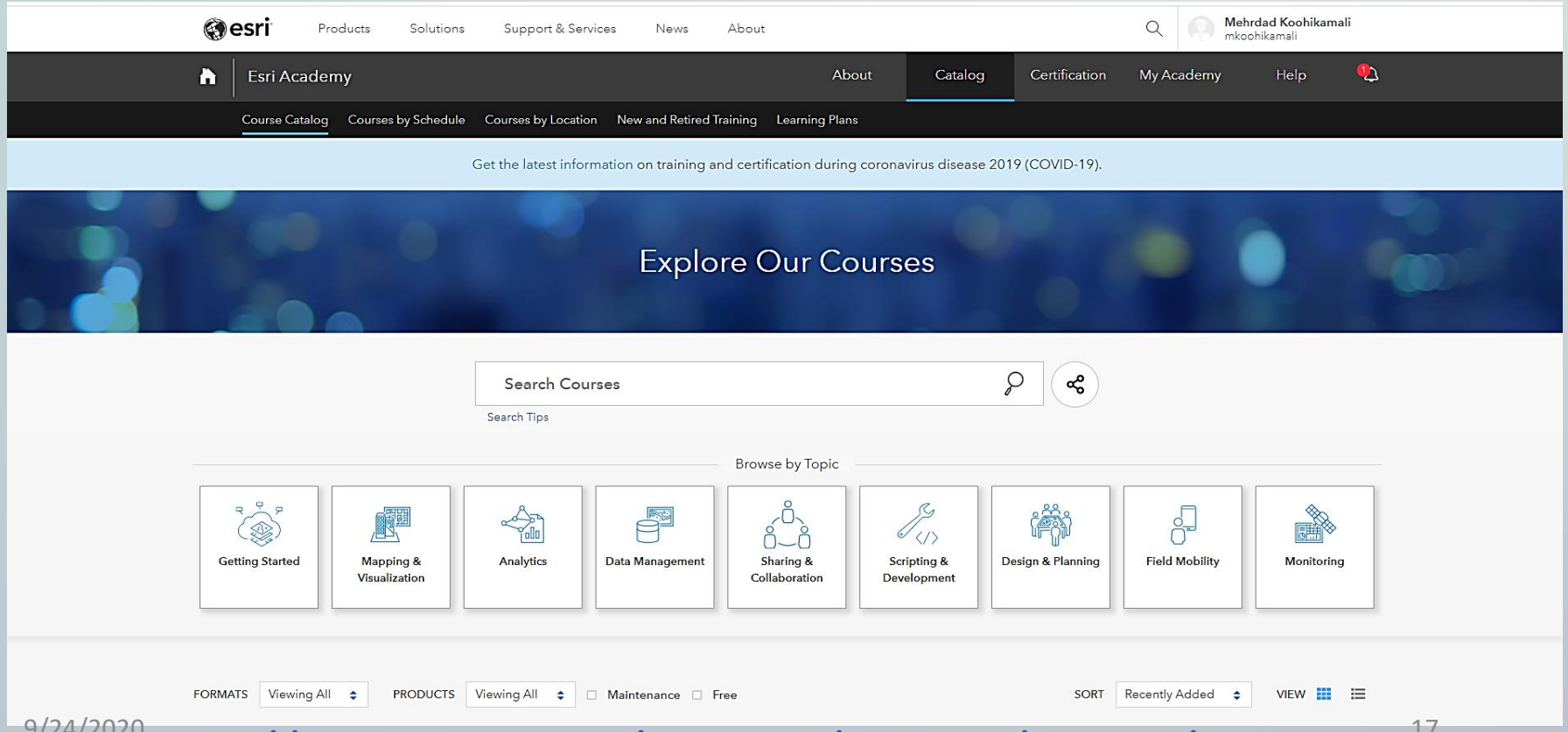


Monitoring COVID-19: A Dashboard

https://arcg.is/0fnreH0

Learning and Tutorials

- Free ESRI Courses



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Questions?

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