HOW R SHINY APPS DRIVE OPERATIONAL DECISION MAKING

David Goody – Lead Data Scientist
(david.goody@education.gov.uk)
Education & Skills Funding Agency
October 2020
About the ESFA...

- Accountable for £57 billion of funding for the education and training sector, providing assurance that public funds are properly spent, achieves value for money for the tax payer and delivers the policies and priorities set by the Secretary of State

- Regulates academies, further education and sixth-form colleges, and training providers, intervening where there is risk of failure or where there is evidence of mismanagement of public funds

- Delivers major projects and operates key services in the education and skills sector, such as the National Careers Service, the National Apprenticeship Service and the Learning Records Service

---

Education & Skills Funding Agency
About our RS Connect set-up...

- Production & staging servers
- 1250 user licences
- Code management & deployment pipelines through Azure DevOps
Welcome to the ESFA App Store! This is the home of all the interactive shiny applications, PowerBI reports, and Excel dashboards being developed by the Data Science and Provider Market Oversight teams!

Use the buttons in the middle of the page to see more information about each app, details of how to access it, and a link through to the content.

For more information about the different apps, see the ‘contact’ section of each app.

Search for Apps

Click a menu heading to show the list of apps.

- **Admin and Corporate** 6 apps
- **AMSD and Free Schools** 7 apps
- **Apprenticeships** 13 apps
- **Customer Experience** 2 apps
- **DFE and External** 6 apps
- **FE and T-Levels** 15 apps
- **IPA Maps** 4 apps
- **Risk and Oversight** 12 apps

**Schools IPA Map**

Access: Unrestricted

Contact: IPA Maps Mailbox

The Schools Interactive Prover Analysis (IPA) Map can help you to understand the local context of schools and academy trusts in high levels of detail.

Providing interactive visuals of pupil numbers and catchment areas at LSOA level, this app is part of the IPA Maps Suite.

Go to the App
Use the menus and buttons in this panel to build features onto the map. You can add schools, geographic boundaries and titles, as well as upload your own data. You can also save the map to come back to later.

Add Schools and Academies
- Add a School
- Add a Trust
- Add Nearby Schools
- Add a Group of Schools

Add Colleges and Providers
- Add Map Features
- Annotate the Map
- Edit Map Features
- Upload Data
- Remove Map Features
- Bookmark the Map
Add a Group of Schools

Use the filters to define a group of schools

Filter on Geography
Select a geographic level

Add schools in... (leave blank for all)

Filter on School Characteristics
Phase
- Primary
- Secondary
- All through

Type
- Academies
- Alternative
- Independent
- Maintained Schools
- Special

Academy Trust Type
- SAT
- MAT

Faith
- None
- Church of England
- Roman Catholic
- Other Christian
- Jewish
- Muslim
- Sikh
- Hindu
- Other

Ofsted
- Outstanding
- Good
- Requires Improvement
- Inadequate
- NA

Customise the appearance of the schools
Set Marker Options
Select an icon
Circle

Choose how to colour the icons
- Use data fields
- Pick a colour

Select an icon colour
- Ofsted Grade

Set Label Options
Give this feature a unique name

School Phase
School Type
Local Authority
Upload Data

Upload data with school URNs, provider UKPRNs or with Postcodes

- School URNs
- Provider UKPRNs
- Postcodes

Select a CSV file to upload

It must have a column of URNs called ‘URN’

<table>
<thead>
<tr>
<th>Upload</th>
<th>No file selected</th>
</tr>
</thead>
</table>

Set Marker Options

Set Label Options

Give this feature a unique name

- Add to legend?
- Show numbers in legend?

Ok  Cancel
Other stuff we love...

• Fast loading time due to shared sessions
• Customisable URLs
• Secure access through AD groups
• Monitoring usage
• R Markdown reports
Questions?