EDINA Geoservices: Fieldtrip GB

February 25th 2015

Tom Armitage EDINA, Geoservices Support





ED1NA

- Jisc Supported National Datacentre
 - Data Delivery
 - Data Discovery
 - Apps, Tools, APIs, Infrastructure
- **Geographical** Reference Multimedia Access

http://edina.ac.uk/



EDINA's Geo Services

- View Annotate and Print Maps
- Download Map Data
- Search for Datasets, News etc.
- Create Metadata Records
- Create Geospatial Search Tools
- Geoparse text to find locations
- Embed Maps in Websites / GIS
- Record Data in the Field
- Citizen Science







OpenStream

http://edina.ac.uk/

Fieldtrip GB





EDINA's Recent Geo Projects

- Layering Historical Data
- Crowdsourcing data correction
- Geoparse Documents
- Visualise the results
- Assist learners with disabilities
- Mobile app development
- European FP7 Project led by EDINA
- Developing Field Study mobile apps



http://edina.ac.uk/













Fieldtrip GB: A Data Collection Mobile App





What does it do?





All the key features: Capture information Images Audio Text Location High quality background maps Saved maps for use "offline" Custom data collection forms Manual location correction It's Free

EDINA Jisc



The Basics

Maps: view online maps or saved ones offline

Download: maps and view captured records.





Capture Data: basic capture forms and GPS tracking

Login: to a Dropbox account





The Basics

80

Maps: view online maps or saved ones offline

Download: maps and view captured records.





Capture Data: basic capture forms and GPS tracking

Upload records and **Download** new forms from Dropbox





Dropbox



Why Dropbox?

Basic Account is free



- Dropbox terms of use don't give them access to the users data
- EDINA aren't responsible for User's data
- Account details can be shared
- We didn't want people to have yet another set of login details to remember





Jisc

ED<mark>1</mark>NA

Authoring tool



FieldTrip GB Author Home Create new for	rm Record Viewer Editors Gallery ▼ My Editors ▼ Contact	
Form Elements Text Range Text Area Multiple Choice Selector Single Choice Selector Drop down Selector Inage Capture	Edit menu Mode Rotation Size screen Ad Title: Geology Edit Insynchronized Title Placeholder Title Required Yes Placeholded Placeholded Max length 10	tions -
Audio Capture Download app from:	Drag and drop: Easy to use form builder	Done Preview



Custom Forms



Title	
Placeholder	
Rock Type	
	0)
Rock Description	
Placeholder	
Dip	
Placeh	
Strike	
Placeh	
Note Book Ref	
Placeholder	
Photo	
Camera Gamery	
Save Cancel	

Jisc

ed<mark>1</mark>na

Easy data management:

- Consistent terms
- Single data structure
- Set increments to aid estimates
- Reduced errors
 - consistent errors at least!

Locati	on Name			_	
Place	holder				
Specie	25				
				0)
Numb	er Seen Co	ncurren	tly		
_	0				
-					
Photo					
		Ъ			
Carn		and the second se			
Carl	cra tra			_	
	Save		Cance	el 🚽	
				20	
		_			
	<u>}</u>		6.4	_ _	1
tome	мар		apture	Downie	200
					1
					1



Capture Data





Fill in the form:

- Drop down menus are quicker than typing
- Sliders can also speed data entry

Update the location:

- Urban canyons can confuse the GPS
- Allows data entry from remote locations to be carried out







The Mapping





StrategiNatural EnglandLand-Form PANORAMAVector Map DistrictOS Street ViewOpenStreetMap





Why does Fieldtrip GB need its own map?



PEEBLES



Google Maps



OpenStreetMap

Fieldtrip GB





Urban vs. Rural





EDINA Jisc



Offline Mapping



Why save maps to the phone?

- No need to be online to view maps
- Streaming maps uses data allowance
- Maps load faster from memory

Field Trip GB 7 6 THT met to between and the pixels, 10 Th

Preview Map: Shows the detail of the mapping for your location.

Zoom Levels: Set the number of zoom levels you want to download

Jisc

ED1NA







Edit & Share





Easy Data Sharing:

- 🚸 Upload data
- 💠 Filter data by form name
- Visualise your data on a basemap
- 🔶 Edit collected data
- Export to kml, GeoJson, csv, wms*
- Share maps through
 Dropbox

EDINA Jisc



Lesson Plan



	1.Before you start	 Get a new group Dropbox account to share with your class Download Fieldtrip GB to your devices
	2. Design your form	 Log into the Authoring Tool Create a custom form and save it
	3. Share the form	 Get the class to log into the group Dropbox account Use Download to get the form on their devices
	4. In the field	 Collect data using the form Manually correct remote points or in urban canyons
	5. Back indoors	 Connect to WiFi Get the team to upload their data
	6. Manage your data	 Log into Authoring Tool Filter by form name and edit points if needed
>	7. View the results	 Export to a KML file, GeoJSON, CSV or WMS Map the points in Google Earth, OpenLayers or a GIS





Future Directions:



We are planning...

- OpenStreetMap Global Edition
- Upload your own maps
- Upload points of interest / waymarkers
- Extra sensor measurements
- More complex forms









Jisc

ED<mark>1</mark>NA

Any Questions?





Email: edina@ed.ac.uk Phone: 0131 651 3302

Tom Armitage EDINA, Geoservices Support