

CY-FIS

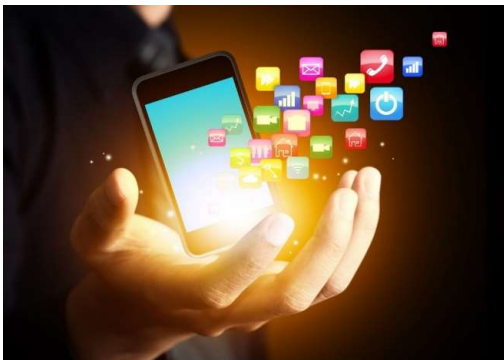
Mobile application

Cyprus's Recreational Fisheries application:
exploring new “control” waters

Yiannos Kyriacou

Webinar: Recreational fisheries monitoring & control

4 December 2020



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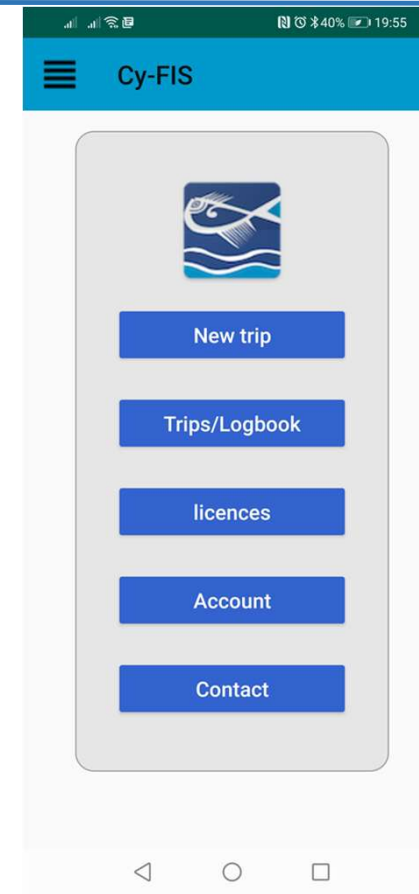
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2014 - 2020



Overview/content

- What / How / Why **CY FIS**
- Development /Timeline / Cost
- Web application
- CY-FIS mobile app
- Real time use of the app
- Challenges /Experiences /Lessons learned
- Next steps



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Background

- **How important is recreational Fisheries? What is the impact of recreational Fisheries**
 - Recreational fisheries can be of the same magnitude as commercial fisheries: The case of Cyprus (*N. Michailidis et al. 2020*)

<https://www.sciencedirect.com/science/article/abs/pii/S0165783620302289>

«The study indicates that MRF in Cyprus and probably elsewhere in the Mediterranean has been underestimated thus far and that it should definitely be taken into account when considering measures for fisheries management, N. Michailidis et al. 2020.»

- **Action Plan for catch reporting**
 - Use of electronic means to collect accurate and reliable catch data in a timely manner
 - Pilot/experimental project on the use of mobile applications for all fisheries activities



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CY FIS Mobile App

- CY FIS - Cyprus Fisheries Information Service
 - *Department of Fisheries and Marine Research*
- Pilot project – Voluntary use 2020.
“Sharing Information for Sustainable Management of Fisheries Resources”
users involved in fishing, scuba diving, general leisure
- Primary use for recording and declaring Fishing Activities by Professional and Amateur Fishermen as well as other related activities for the purposes of fisheries resource management by the Department of Fisheries and Marine Research



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Timeline



The project is co-financed by the European Maritime and Fisheries Fund - Action 3.1.7 of Article 76.2, Measure 3.1 Control and Enforcement, of the Operational Programme «Thalassa 2014-2020».

The application was developed by Quality & Reliability A.E. for the purpose of data collection by the Department of Fisheries and Marine Research.



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Cost

#	Description	Amount (€)
1.	App development (+5 years maintenance and technical support)	€40000
2.	Hardware (Servers)	€31136
3.	Firewall, Domain Name and SSL Certificate	€3000
4.	Database Licences	€23345
	Total	€97481



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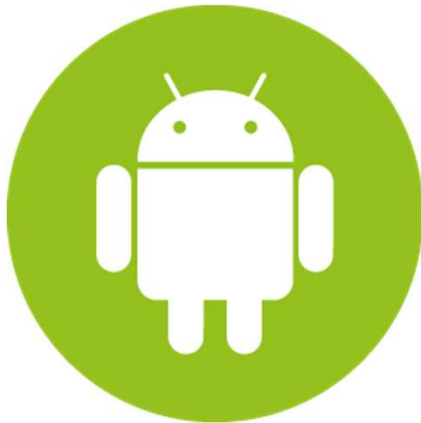
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CY-FIS Mobile app

- Mobile Application



- Web Application

<https://dfmrapp.com.cy/>



Web application - Functionalities

- **Administrators and super users**
 - Mobile application Management
 - Master data register (use EU MDR codes)
 - License Management and customization for specific users/per license
 - Trips and fishing logbook
 - Monitoring of fishing fleets if enabled
 - Data extraction and analysis
 - Message center (sending and receiving)
- **General Users**
 - Logging of data as in the mobile app
 - Account management



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License types

BigOceanData

Καλώς ήρθατε στην εφαρμογή

dfmrapp.com.cy/TatheGI/faces/filmStrip

Admin_Yiannos

License Types, General Parameters, Fish types, Rejection Reasons, Return Reasons, Fish Presentation, Fishing tools types, Positions, Question types, Countries, Useful Links, KML file, Διαχείριση εγγραφών χρήστ

Είδη αδειών

Αναζήτηση

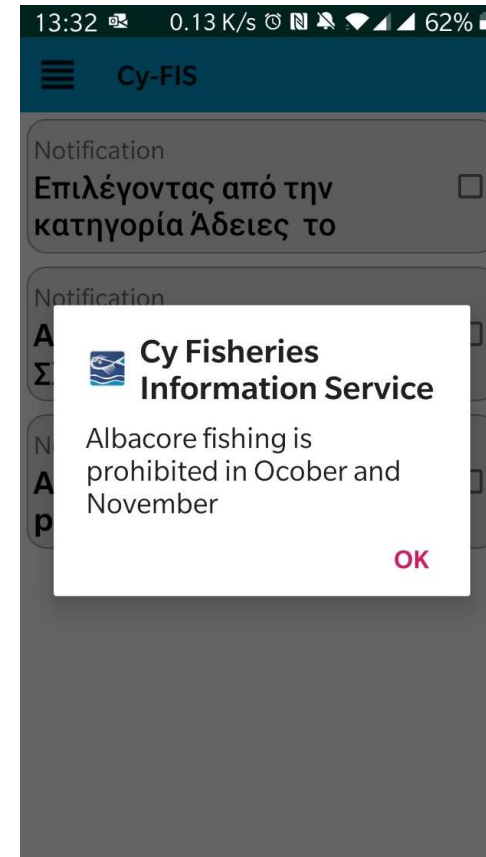
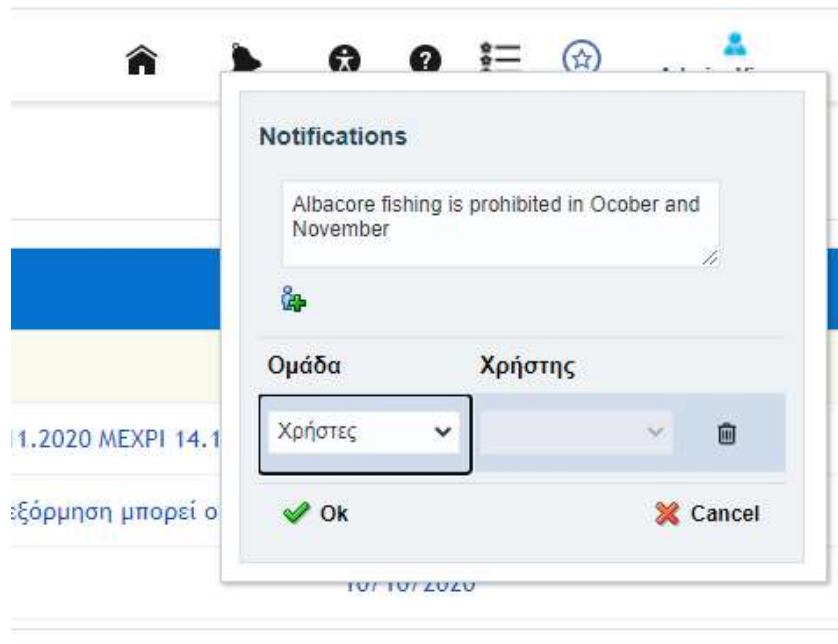
Code, Name (english), Active, Vessel Required

Αποθήκευση, Επαναφορά, Advanced

Αναζήτηση, Καθαρισμός

Code	Όνομασία (ελληνικά)	Name (english)	Περιγραφή (ελληνικά)	Description (english)	Active	Vessel Required				
PFSSC2	Επαγγελματική άδεια Γ χω	Professional fish	Επαγγελματική άδεια Γ χωρίς σκάφος	Professional fishing Cat. C w/out vessel	No	No	🐟	🔗	📍	☰
PSCA	Επαγγελματική άδεια Α	Coastal vessels	Επαγγελματική άδεια Α – Παράκτιας Αλιείας	Coastal vessels (Pro License A')	No	Yes	🐟	🔗	📍	☰
PSSB	Επαγγελματική άδεια Β	Coastal vessels	Επαγγελματική άδεια Β – Παράκτιας Αλιείας	Coastal vessels (Pro License B')	No	Yes	🐟	🔗	📍	☰
PSSC	Επαγγελματική άδεια Γ	Coastal vessels	Επαγγελματική άδεια Γ – Παράκτιας Αλιείας	Coastal vessels (Pro License C')	No	Yes	🐟	🔗	📍	☰
RFD	Ερασιτεχνική άδεια Φράκι	Recreational Fis	Ερασιτεχνική άδεια σε υδατοφράκτες	Recreational Fishing in Dams	Yes	No	🐟	🔗	📍	☰
RFS	Ερασιτεχνική Αλιεία απο τ	Recreational Fis	Ερασιτεχνική Αλιεία απο την Ακτή	Recreational Fishing from shore	No	No	🐟	🔗	📍	☰
RFS	Ερασιτεχνική άδεια με Ψα	Spear fishing	Ερασιτεχνική άδεια με Ψαροντούφεκο	Spear fishing	Yes	No	🐟	🔗	📍	☰

Notifications



Mobile application major functionalities

- **Trips and fishing activities**
- **Communication with DFMR**
- **Useful links**
- **Map view and restricted area notifications**

- **Operates with and without internet access**
(If internet access is available data is send at the beginning and at the end of the trip)



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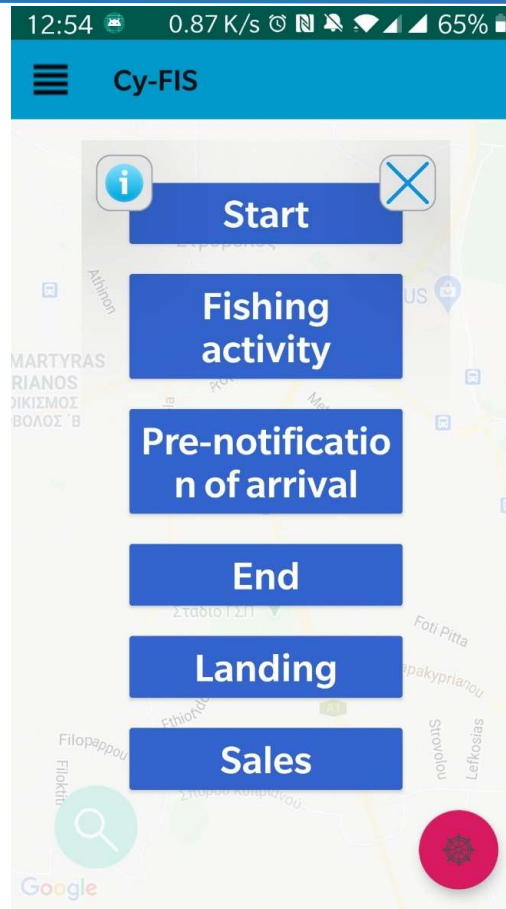


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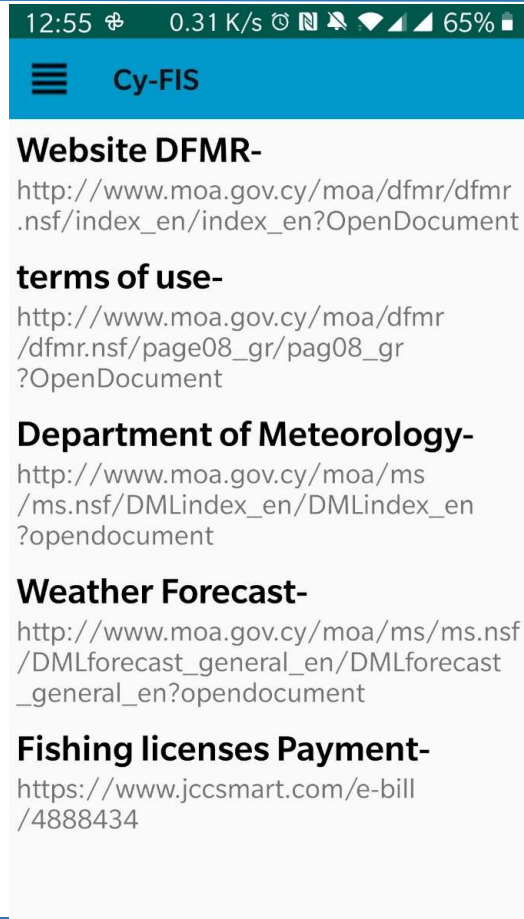
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Mobile app – logbook



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Mobile app - Χρήσιμα



12:55 0.31 K/s 65%

Cy-FIS

Website DFMR-
http://www.moa.gov.cy/moa/dfmr/dfmr.nsf/index_en/index_en?OpenDocument

terms of use-
http://www.moa.gov.cy/moa/dfmr/dfmr.nsf/page08_gr/pag08_gr?OpenDocument

Department of Meteorology-
http://www.moa.gov.cy/moa/ms/ms.nsf/DMLindex_en/DMLindex_en?opendocument

Weather Forecast-
http://www.moa.gov.cy/moa/ms/ms.nsf/DMLforecast_general_en/DMLforecast_general_en?opendocument

Fishing licenses Payment-
<https://www.jccsmart.com/e-bill/4888434>



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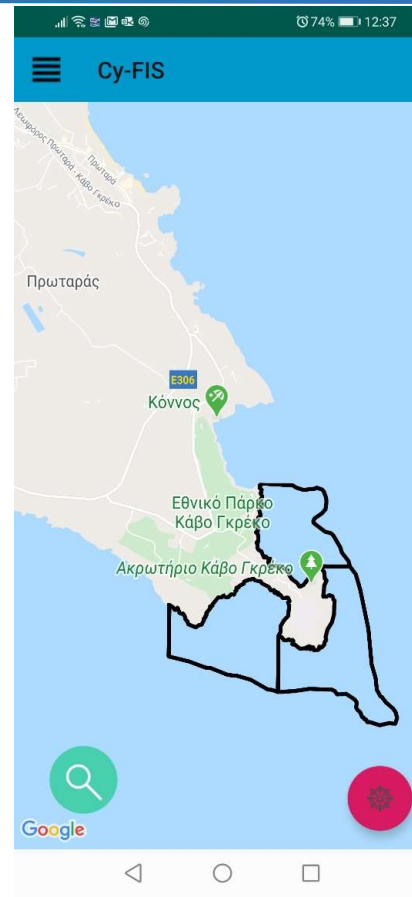


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Mobile app – Restricted Zones

Notifications real time
(if GPS enabled)

- Fishing restricted zones
- No enter zones



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Reaction from “users”

- Users are very skeptical
- No data sent up to today and very few users registered!
- The ability to record positions (if enabled) is an issue for potential users.
- Some claim its not user friendly!
- Most ask “*why should I use this app? what's in it for me..?*”
- Collective bodies /Associations support it (in Theory)



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What next???

- 2020 very little interest as a voluntary tool
- Need further publicity and information to potential users
- Further development will be assessed after there is substantial use
- Some limitations/issues regarding the app:
 - Android not consistent among different mobile brands and mobile version affecting mainly display of text.
 - GPS interference high in our area (especially affecting android phones)
- 2021- ???? Possible use as mandatory for some groups (legal basis is available in terms of having adequate control and for fisheries management)



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What next???

- **Operational support (Human Resources)**
 - IT support
 - Business Support
- **Reliability of Data (will depend on legal obligations)**
 - Validation and cross check?
- **Data management and Use**
 - Extraction
 - Interoperability



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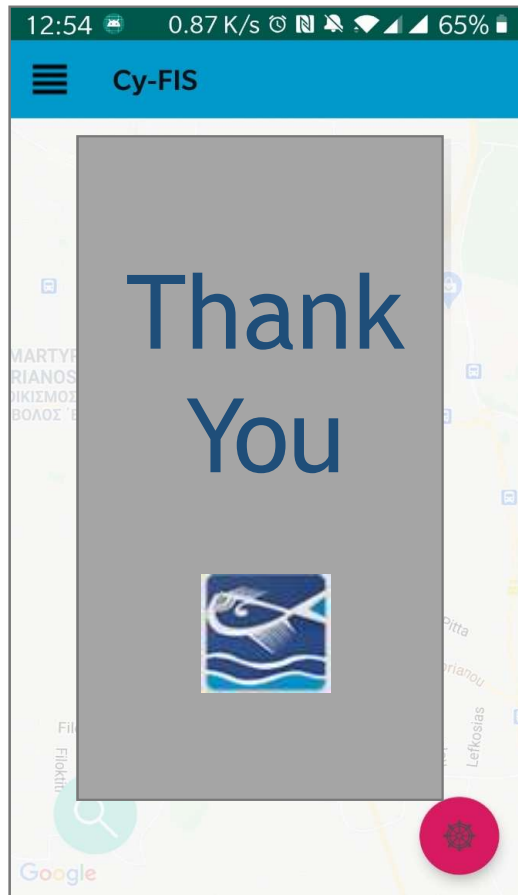
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