

# m-Logbook



MINISTRY OF AGRICULTURE, CROATIA  
Directorate of Fisheries

# Croatian fleet

The fleet consists of around 3000 active vessels → 2100 active small fishing vessels of less than 10 metres' length overall.

Instead of using a sampling Croatia obliged masters of the SSF vessels to submit fishing activity data on monthly basis via catch report that comes in a paper form.

Further on, employees of DoF enter data from catch reports into Fisheries information System.

Around 700 vessels are equipped with electronic logbooks:

- all fishing vessels of 12 metres' length overall or more
- all fishing vessels using purse seiners, trawlers and dredges
- All vessels with BFT quota and **vessels with SWO quota of 8 metres' length overall or more**

# Pros & Cons

## PROS:

- The largest advantage in catch report system vs. sampling is much more accurate data received by fishermen.
- Data on fishing days at sea gained from the reports are used to calculate the fishing activity; this enables us to use the exact information needed for verification of the compliance with one of the selection criteria used in support schemes/measures for fisheries.

## CONS:

- During last 5 years average number of catch reports entered into FIS was around 31.000.
- Average number of catch reports entered per hour is 10 thus employees of DoF spent around 450 working days entering data into FIS.

# M-Logbook users

Launching of m-Logbook was in July 2018.

Around 20 vessels of less than 8 metres' length overall with SWO quota → technical problem installing electronic logbook.

In October 2018 Croatia was given the derogation for using shore seines and small purse seiners not aiming at small pelagic fish.

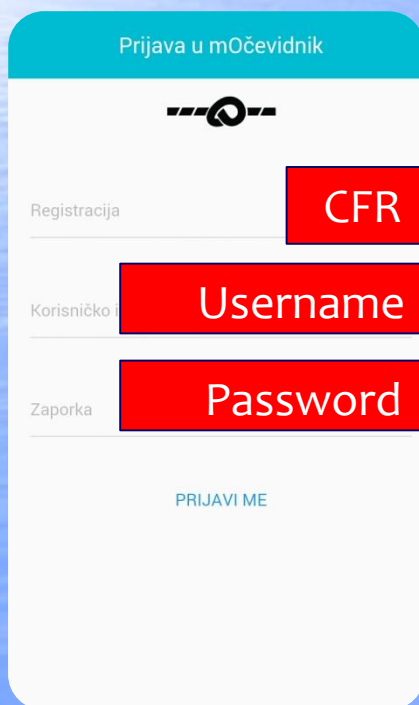
120 vessels were given the authorization to use those gears, mostly vessels of 5-8 metres' length overall → 80 of them are added to the list of users with mobile application.

The plan for the next two years is to oblige all users of catch reports to use mobile application instead. That way all vessels in commercial fisheries should submit documents in electronic form.

# Installing the application

Mobile application is installed through Google play application.

It is automatically updated when new version is published.



Prijava u mOčevnik

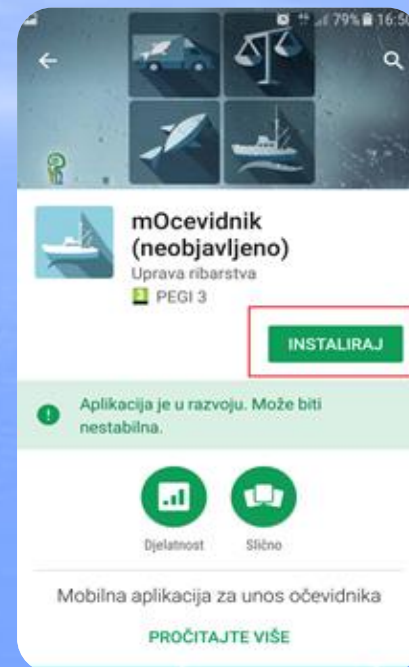
Registracija **CFR**

Korisničko **Username**

Zaporka **Password**

PRIJAVI ME

Fishermen can enter data for different vessels they own just by changing the CFR number.



# Settings

To speed up the process some data is entered into settings:

Port of departure

Port of arrival

Port of landing

Name of the master  
of the vessel and  
address

Postavke SPREMI

Luke

Polazak:  
BOL (HR372) >

Povratak:  
BOL (HR372) >

Iskrcaj:  
Resnik >

Odgovorna osoba

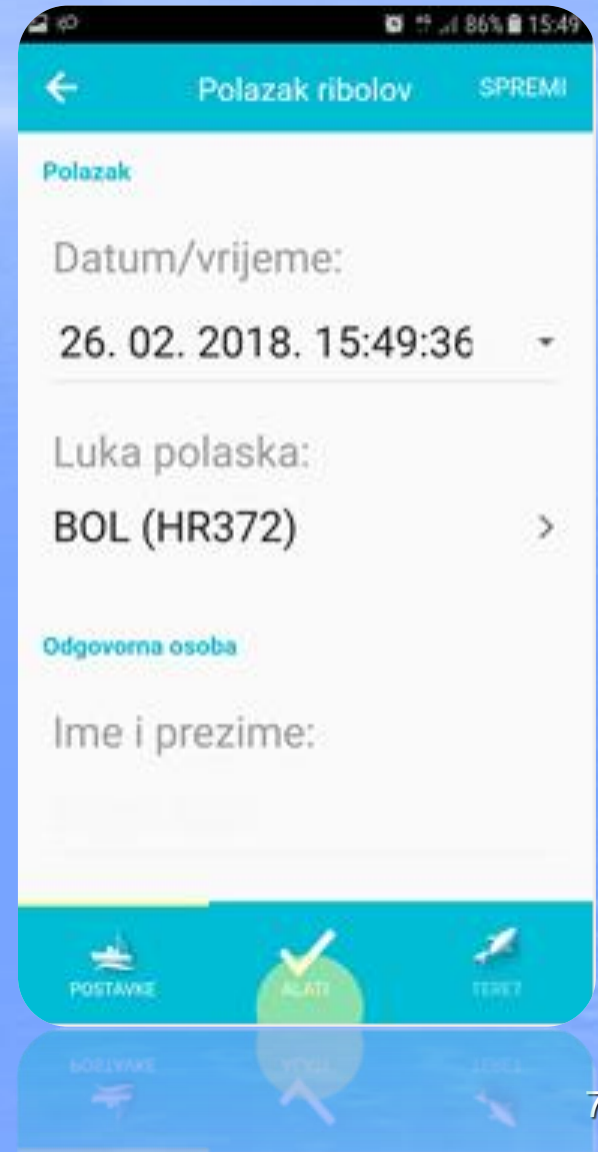
Ime i prezime:

POSTAVKE MORSKI ORGANIZMI

Species

# Functionalities

- New logbook cannot be open until the last one is finished.
- All data should be entered in real-time, so time cannot be turned back.
- Data may be entered even if GPRS signal is unreachable; logbook is sent when GPRS signal is reached.



# Logbook activities

Departure

Fishing activity

Prior notification of arrival

Arrival

Landing

The screenshot shows a mobile application interface for a logbook. At the top, there is a teal header with a back arrow and the title "Očevidnik ribolov". Below the header, the log entry ID "HRVLOGM1801405022616 - Završen 48" is displayed. The main content area lists several activities with their respective dates and times, each followed by a right-pointing arrow:

- Polazak** (Departure): 26.02.2018 15:56
- Napori** (Fishing activity): 1
- Najava povratka** (Prior notification of arrival): 26.02.2018 16:29
- Povratak** (Arrival): 26.02.2018 16:00
- Iskrcaji** (Landing)

At the bottom of the screen, there is a red button labeled "POŠALJI OČEVIDNIK".

POŠALJI OČEVIDNIK

POŠALJI OČEVIDNIK



# Development and Costs

- Development of mobile application starting from scratches took around 6-9 months
- Data from m-Logbook is stored in another database → full synchronization with FIS expected on 1 Feb 2019 → VALID rules already exist, right now it's checked manually by DoF
- The cost of development was 12.000 euros and annual costs of support, including further development of new mobile application (e.g. m-SalesNote, m-TransportDocument) is around 16.000 euros
- Fisherman costs: Internet consumption (around 300 kB per logbook), smartphones; there was no additional training

# Challenges

- Age of the fishermen → Resistance and no knowledge of using Smartphones, especially android and iOS applications
- Hours and hours spent on education and correcting errors in data received
- Data should be entered in real-time instead of submitting it on monthly basis
- Fisheries Information System should be completely synchronized with mobile data, thus Sales Notes, Transport Documents, Weighing Records and all other documents must be ready to validate data like different form of serial number of m-Logbook