



SECURE DATA GUARANTEED



DATA ACQUISITION & STORAGE



ANALYTICS DATA MINING EXPERT SYSTEMS



DECISION MAKING TOOLS



FISHERS & FAMILIES



FISHING ORGANIZATIONS SHIPOWNERS



FISHING AUTHORITIES

ROBUST FISHERIES MONITORING CENTER

TRACK TENS OF THOUSANDS OF VESSELS ACCURATELY AND SECURELY - DATA PROCESSING ANALYSIS - BIG DATA ANALYTICS

HYBRID MOBILE / SATELLITE BEACON

MOBILE NETWORK IN COASTAL WATERS - SATELLITE COVERAGE OUTSIDE ZONE - GLOBAL COVERAGE AT A LOW COST

MOBILE APPS: FISHERMEN, INSPECTORS, INSTALLERS

EASY TO USE - WEATHER ALERTS - SIMPLIFIED CATCH REPORTS - INTERACTIVE TOOLS

NEMO

AN INTEGRATED, ROBUST, LOW-COST SYSTEM FOR SUSTAINABLE FISHERIES MANAGEMENT

Knowledge is Power

The FAO's Small-Scale Fisheries Guidelines seek to protect fishing communities, their livelihoods, and food security. This depends entirely on fisheries resources. Each year, artisanal fisheries catch 50 % of the marine fish for food. But how to manage stocks sustainably, since today, SSF are not monitored?

Fitting these small vessels with trackers would tell us where and when they are fishing. Tracking would also save lives at sea, since fishers can quickly lose cell phone coverage. To solve this problem, CLS has developed the NEMO beacon: a hybrid, satellite-mobile tracker with global connectivity. We can now capture and transmit key traceability data.

But a beacon or simple GPS is not enough—to estimate the total fishing effort, we also need to map traditional fishing grounds with better accuracy. The challenge is considerable: there are tens of thousands of SSF vessels and real-time monitoring will produce massive amounts of data. To make sure that information is manageable and reliable, CLS has developed a special SSF Fisheries Monitoring Center using Big Data analytics.

The NEMO system has been especially designed to help you manage small-scale fishing and encourage support from fishing communities. Together, we can work to protect your traditional industry and marine resources for the future.



ASK FOR A MEETING : CLSFISHINGTEAM@CLS.FR

CLS: 25+ YEARS' EXPERTISE THE WORLD'S LEADING VMS & FMC PROVIDER

- **Over 700 employees** (experts in fisheries, oceanography, meteorology, data science, software and hardware engineering)
- **130 satellites**

EXPERIENCE

- **6,000,000 VMS** reports processed every day
- **14,000 vessels** already equipped worldwide
- **10,000 satellite images** programmed, acquired, processed & analyzed per year
- **+65 countries** have chosen our solutions
- **+30 FMCs**

WORLDWIDE NETWORK

- **26 offices** on 5 continents

THE VITAL ROLE OF SSF

SOURCE: FAO AND UN



66% OF GLOBAL FISH
CAUGHT FOR FOOD



50 M FISHERMEN



+80 % OF THE WORLD'S
FISHING VESSELS



5.8 M SSF FISHERMEN EARN
LESS THAN 1\$ US/DAY



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THE NEMO

THE ALL-IN-ONE SOLUTION FOR MONITORING AND SECURING SMALL-SCALE FISHERIES

SYSTEME

