C. Perales-Raya, J.G. González-Lorenzo, A. Jurado-Ruzafa, S. Jiménez-Navarro, C. Acosta-Díaz, N. Villegas, B. Sotillo, J. González-Jiménez, M. González-Porto, E. Hernández-Rodríguez
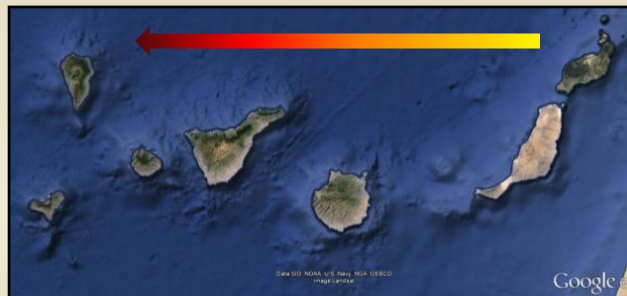
DEMERSAL STOCKS FISHED BY THE ARTISANAL FLEET IN CANARY ISLANDS

FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup North

The Canary Islands and the demersal resources

Africa

Mean values 2013-2016

Landings (tons)	Effort (fishing days)	Vessels
1046	28643	337

- Location: approx.100km off African coast (29°-27°N, 19°-13°W)

- Seven volcanic islands: narrow insular shelf

- Oceanic waters transported by Canary Current: oligotrophic and influenced by African upwelling

- Soft east-west gradient of increasing Tª & Salinity

- High number of demersal species: parrotfish, sparids, morays, shrimps, amberjacks, groupers…

- The fishery: Artisanal **MULTI-GEAR** and **MULTI-SPECIES.** Vessels under "small-gear" licences conducting <u>daily trips</u>

- Since 2015: IEO monitors the fishery through *EU-Data Collection Framework*

The fleet

➢ Polyvalent and opportunistic alternation with pelagic species

➢ Fleet selection for monitoring:

Step 1 – Demersal species ≥ **20 trips**/year and ≥ **100 kg**/year

Step 2 – Vessels with ≥ **60%** of trips/year capturing demersal species

"Expert" criterion to move specific vessels that remains in the limit

Mean characteristics 2015-2016

Length interval	number of vessels	GRT (t)	Length (m)	Power (hp)
< 10 m	299	3	7	29
10 – 12 m	22	8	11	72
> 12 m	12	13	13	81

Target species

Sparisoma cretense

Pagrus spp

Seriola spp

Muraenidae

Beryx spp
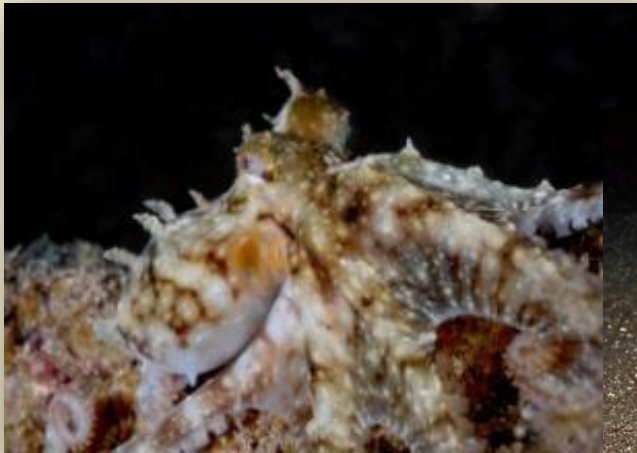
Dentex spp

Target species

Plesionika spp

Cephalopods

Other Sparidae

Fishing gears - TRAPS

Traps for fish

Sparisoma cretense, Mullus surmuletus, Sparidae *(Dentex gibbosus Sarpa salpa, Diplodus* spp, *Lithognathus mormyrus, Pagellus erythrinus, Pagrus pagrus)*, **other fish and invertebrates** (crabs, *O. vulgaris*)

Traps for shrimps

Plesionika narval, Plesio-nika edwardsii, fish and invertebrates (Muraenidae, ***Octopus vulgaris***)

Traps for morays

***Muraena* spp, *Gymno-thorax* spp**

HOOKS and LINES

Hand lines

Phycis phycis, Mora moro, **Beryx spp, Serranidae** (*Epinephelus* spp, *Mycteroperca fusca, Serranus atricauda, S. cabrilla*), **Polyprion americanus**, **Seriola spp**, **Dentex spp, Pagrus spp.**
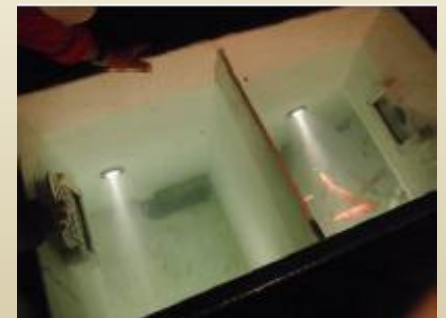

Long lines

***Merluccius merluccius, Phycis phycis, Mora moro, Beryx* spp Polyprion americanus, Scorpaenidae, Polymixia nobilis, Conger conger, Schedophilus ovalis ...**

Jigging lines

Loligo vulgaris, L. forbesi, Sthenoteuthis pteropus, Illex coindetii, Todarodes sagittatus, Ommastrephes bartrami

NETS

GILLNETS: trammel nets/set gillnets

Mullus surmuletus, Sparisoma cretense, *Chelon labrosus, Sarpa salpa, Diplodus sargus, Mustelus* **spp** and other coastal fish

LIFTNETS: portable liftnets

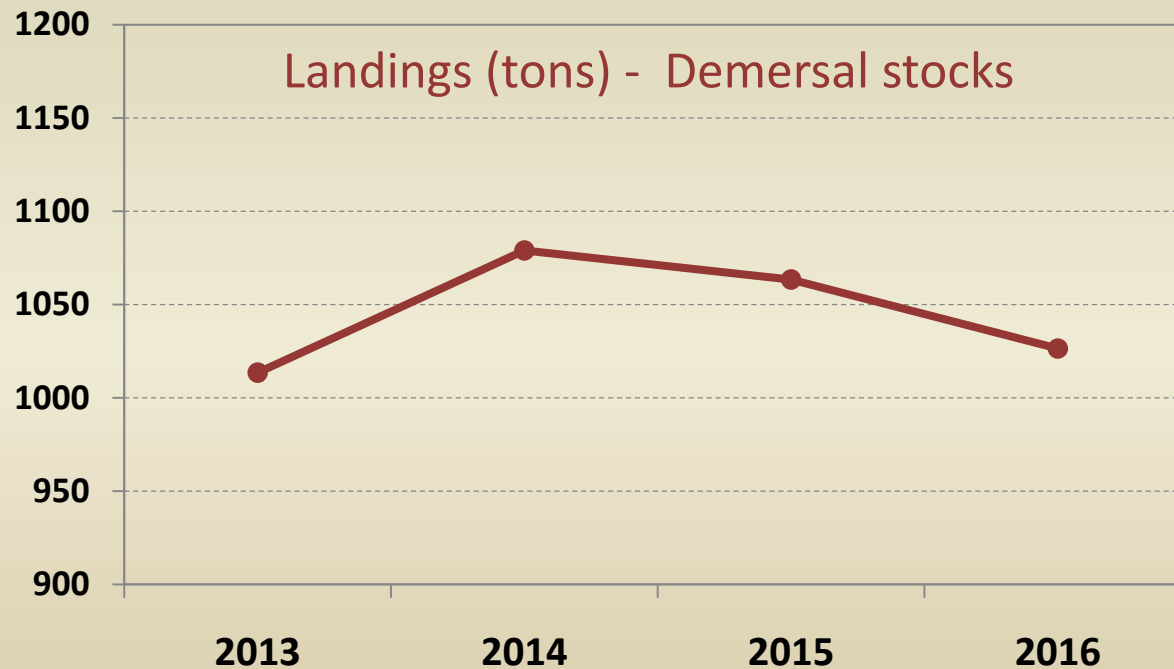*Sparisoma cretense, Boops boops, Thalassoma pavo* and other coastal fish
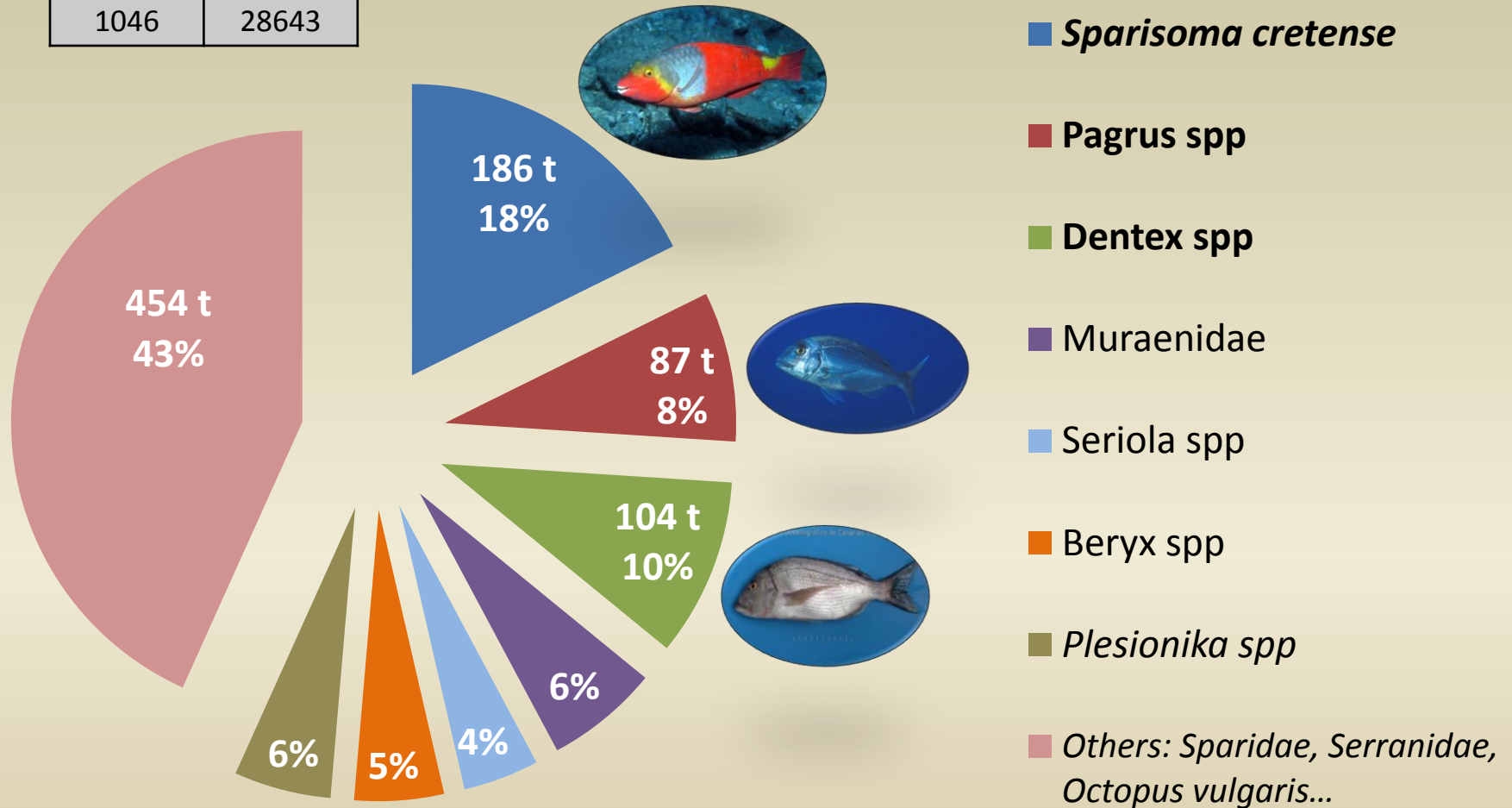
Total-catch trends 2013-2016

- Official Statistics: Sale Notes SGPM. Higher reliability from 2013

- Not total values due to the **polyvalence** of the fleet

  ➢ Coverage of selected vessels for monitoring: 83% landings; 90% effort
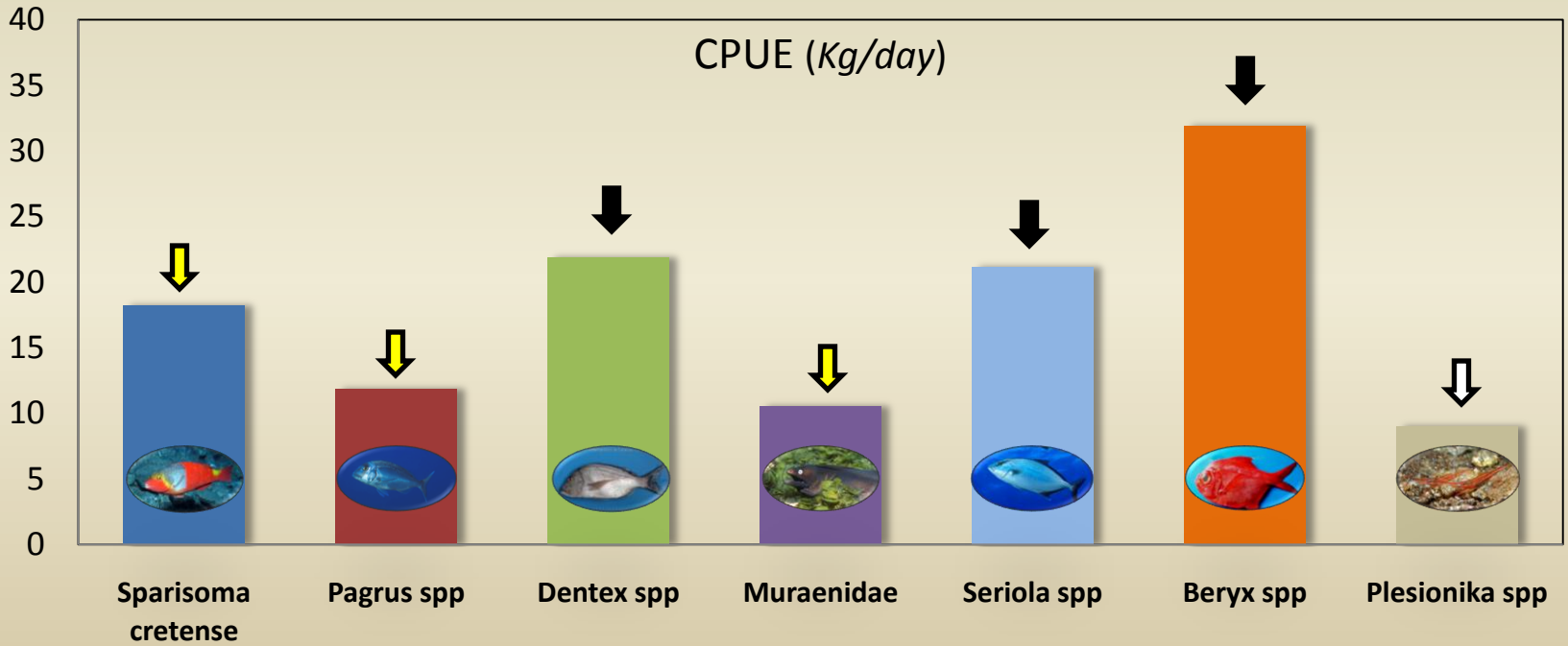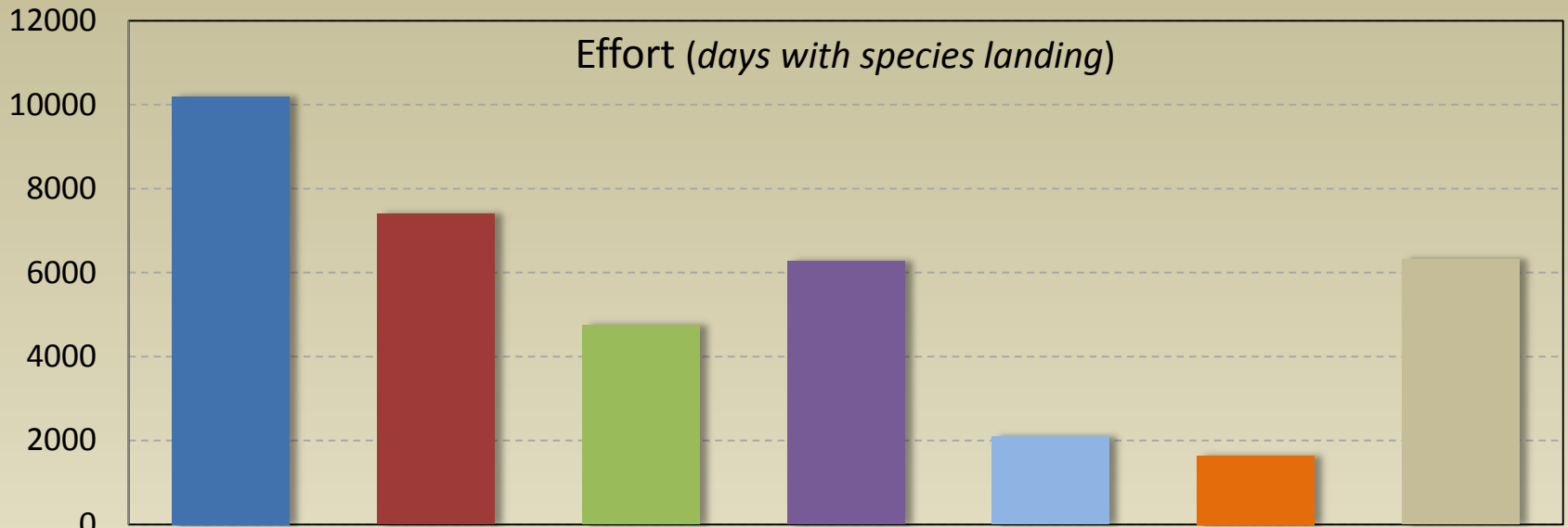
  ➢ *S. cretense*: 92% landings; 94% effort

Landings (tons) - Demersal stocks

	2013	2014	2015	2016

(Chart y-axis: 900, 950, 1000, 1050, 1100, 1150, 1200)

Mean data by species (2013-2016)

Catch (tons/year)	Effort (days/year)
1046	28643

- ■ *Sparisoma cretense*
- ■ **Pagrus spp**
- ■ **Dentex spp**
- ■ Muraenidae
- ■ Seriola spp
- ■ Beryx spp
- ■ *Plesionika spp*
- ■ *Others: Sparidae, Serranidae, Octopus vulgaris...*

454 t 43%
186 t 18%
87 t 8%
104 t 10%
6%
6%
5%
4%

Effort (*days with species landing*)

CPUE (*Kg/day*)

| Sparisoma cretense | Pagrus spp | Dentex spp | Muraenidae | Seriola spp | Beryx spp | Plesionika spp |

Catch trends: 2013-2016

Landings by species (tons)

Legend:
- **Sparisoma cretense**
- *Pagrus spp*
- *Dentex spp*
- *Muraenidae*
- *Seriola spp*
- *Beryx spp*
- *Plesionika spp*

Monitoring at IEO

- Length sampling at market: RIM-IEO net in 21 landing sites

- Since 2015: **EU-DCF sampling at sea** by a program of scientific observers in <u>TENERIFE</u>
  ⇩

  > The highest percentage of vessels and fishing days (31%) of Canaries
  > -data 2016-

- 2-3 monthly samplings covering North, Northeast and South: length of all catches (**retained** and **discards**)

- Fishing activity (fishing areas, fishing strategy…)

■ North
■ Northeast
■ South

Punta Hidalgo
El Pris
Puerto de la Cruz
Icod
Garachico
San Andrés
Candelaria
Playa San Juan
Tajao
Los Cristianos
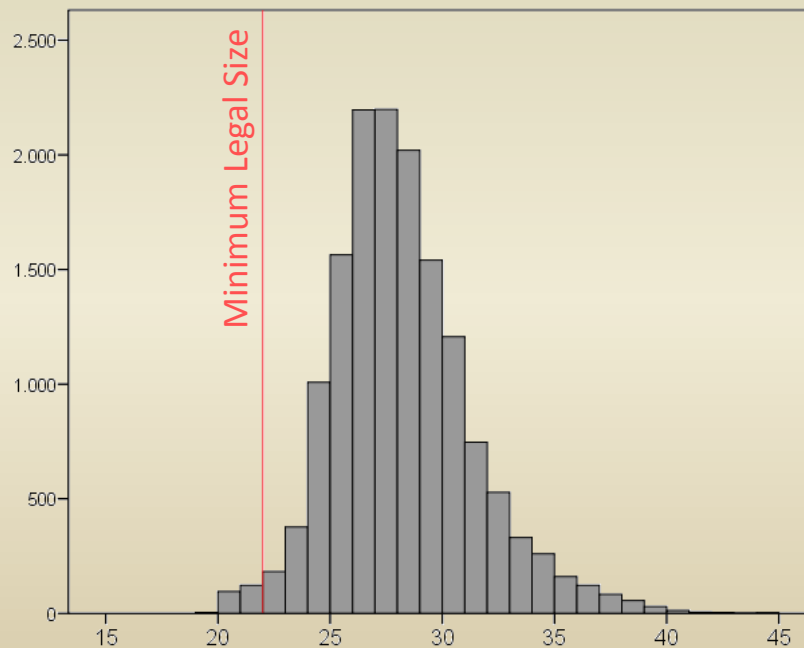
a) 0-50 m
b) 50-200 m
c) 200-500 m
d) 500-1000 m

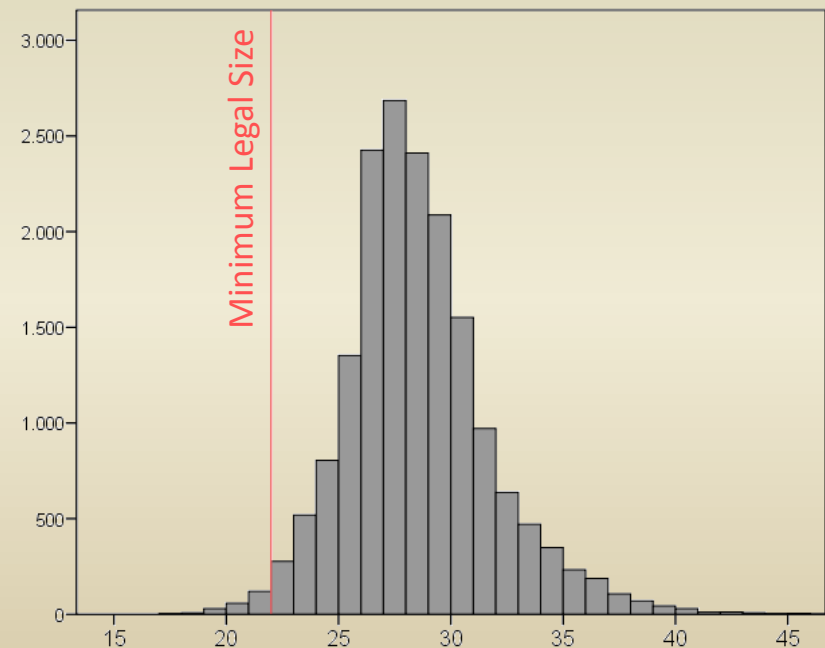# *Length distributions Sparisoma cretense*

- Since 2015: length sampling **at market** (RIM-IEO) and also **at sea** by scientific observers (UE-DCF)

2015

2016

- **Catch and effort data of the main stocks from 2013 onwards *¿WHICH STOCKS?***

- **Length distribution of *Sparisoma cretense* from 2015 onwards**

- **To provide these data for the next data call of the Working Group**

Thanks for your attention
Merci votre attention

European Commission

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MINISTERIO DE ECONOMÍA, INDUSTRIA Y COMPETITIVIDAD