



## Joint Research Centre

STECF EWG 12 04  
International Dimensions of CFP  
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# ToR

- To discuss the **concept of "surplus"**, based on the definition given in UNCLOS texts and taking into account the specific context of
  - shared stocks;
  - transitional periods;
- To discuss **assessment models**, indicators and **management references points** used for stocks of small pelagic and demersal species distributed in Western African Waters or in Waters of the Gulf of Guinea.
- To suggest possible **methods to evaluate surplus** values, depending on:
  - the type of data available;
  - the type of assessment models;
- To deliver some **first calculations**, particularly for mixed FPAs of the Western African area.



# Agenda

- Day 01
  - EJ: intro (10')
  - Aymen: STECF insights (10')
  - EJ: clarification of ToR by DGMARE (15')
  - *Discussion on how to tackle the ToR (30')*
  - M.Bertignac & Gascuel: Recap STECF & UNCLOS (15' + 15')
  - Ad Corten: Surplus computations in Mauritania (15' + 15')
  - Sobrino and Eva: Assessment and advice in CEEAF (15'+15')
  - Iago: Loosely replicating S.aurita and T.trecae population and exploitation dynamics (15'+15')
  - *Agreement on working methodology*



# Agenda

- Day02
  - Discussion on SURPLUS concept (90')
  - Presentation of simulation results
    - JRC: MSE
    - Others ?
  - Subgroups
- Day03
  - Update on subgroups discussions
  - Subgroups
- Day04
  - Update on subgroups discussions
  - Subgroups
  - Report
- Day05 - morning
  - Report

Are we able to **clarify** which  
are **political** issues  
and **highlight** where **science**  
can help ?



# ToR 1)

## *The surplus concept*

- Art 62 2)

The coastal State shall determine its capacity to harvest the living resources of the exclusive economic zone. **Where the coastal State does not have the capacity to harvest the entire allowable catch, it shall**, through agreements or other arrangements and pursuant to the terms, conditions, laws and regulations referred to in paragraph 4, **give other States access to the surplus of the allowable catch**, having particular regard to the provisions of articles 69 and 70, especially in relation to the developing States mentioned therein.



# ToR 1)

- Art 61 3)

Such measures shall also be designed to **maintain or restore populations of harvested species at levels which can produce the maximum sustainable yield**, as qualified by relevant environmental and economic factors, including the economic needs of coastal fishing communities and the special requirements of developing States, and taking into account fishing patterns, the interdependence of stocks and any generally recommended international minimum standards, whether subregional, regional or global.

ToR 1)



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**Surplus =  
MSY – Coastal state(s) catches**



ToR 1)



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**Hell is on the details !!**

# ToR 1)



- 1) Requires MSY estimates
- 2) and catch estimates for all fleets

ToR 1)



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Are we talking about  
formalizing management !?



# ToR 1)

- Objectives (MSY or proxies)
- Strategies (HCR, transition periods, etc)



## ToR 2)

### *Assessment models & Co.*

- Use ICES SISAM work and **adjust** to small pelagics in western Africa.
- Review CECAF report and suggest improvements that will make it easier to **replicate** and **build** on their results.



# ToR 3)

## *Methods to estimate surplus*

- **MSY**

- Illustrate factors that **impact MSY estimates** using a biomass dynamic model: virgin biomass, data problems (under-reporting, “biased” surveys),
- **and strategy**: HCR parameters ( $B_{trigger}$ ,  $F_{target}$ ),
- Illustrated **alternative** options based on surveys or average catches.

- **Catches**

- **Describe options** and in which **conditions** each should be used, e.g., if a state is developing their fishery computing catches based on a long term average will result in lower than necessary share of the surplus.



## ToR 4)

### *Surplus for S.aurita, T.tracae*

- Where is Wally ? **No data no fun !!**
- **Compute shares** based on suggestions from ToR 3).
- Further develop the **Operating Model** for these stocks to build a framework that allows (promotes) further analysis ?