MANAGEMENT OF INVASIVE ALIEN SPECIES.
INTRODUCTION, DEFINITIONS AND CONCEPTS
The IAS are the second cause of biodiversity loss in the world, behind the destruction of habitats.

**Causes** that aggravate the problem of bioinvasions in the last years:

- Increasing trades, travels and transport of goods (**GLOBALIZATION**).
- **Alteration** suffered by ecosystem along these years.
- **Climate Change**.
- Ignorance about the effects of these introductions.
- The lack of effective legislation on IAS (2014).

**REACTION TIME OF ADMINISTRATIONS. LACK OF PLANNING.**
The control of the IAS is part of the *concurrent competences* of the Hydrographic Confederations, given their cause-effect relationship with the loss of water quality, and of the Autonomic Administrations, in matters of ecosystem protection.
GOVERNANCE AND STRATEGIES FOR THE FIGHT AGAINST THE INVASIVE ALIEN SPECIES IN GUADIANA RIVER BASIN
METHODS OF FIGHT AGAINST IAS:

- Mechanics.
- Chemicals.
- Biologics.
- Management.

*Neochetina eichhorniae*
To determine the **Strategies of action in the fight against IAS** we must have a “serious” and continuous knowledge about:

- Ecosystems.
- Presents and potencilas IAS: porpagations mechanism and ways, growth rates, etc.
- Relationships IAS- Natural Enviroment : T°, nutrients, flows, habitats, etc.

**THE STRATEGIES SHOULD BE DYNAMIC AND CONTINUED TO REVIEW**
Actually, the efforts of the Administration has the focus in to increase extraction, control eradication or prevention work. However the eradication of the IAS present in the Guadianas river needs to develop of actions programs in the medium and long term, in order to recover the good health of the fluvial ecosystem.
Need to restore ecosystems
Management and fight against IAS
In the **Guadiana River Basin** action protocols are structured in case of early detection in two horizons:

- **NOTICE OF PRESENCE**
- **REAL PRESENCE**
ENVIRONMENTAL PREVENTION AND SENSITIZATION ACTIONS

• **SPREAD CHANNELS:** (Tríptychs, guides, ...etc)

• **EARLY WARNING:** (web CHG, APP...)

• **INFORMATION, EDUCATION Y SENSITIZATION**

• **TECHNICAL STUDIES**

• **CONTROL Y MONITORING:** remote sensing, environmental damages, etc
FINANCING MEASURES
FINANCING MEASURES

- Direct budgets of the competent agencies.
- European cofinance.

FUTURE PROJECTS

- Indirect measures of financing through other aids.
- Holding each USER responsible for their actions. (“The polluter pays”)

None is sufficiently fulfilled.
In spite of the efforts since the appearance of the problem and the investment made, the experience of these years shows that the water hyacinth needs **CONTINUOUS AND CONSTANT** jobs and budgets.
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