



State Institute for  
Nature Protection

# Dealing with IAS in Croatia - Monitoring and networking-

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EEA/EIONET Balkan meeting on networking  
activities on IAS

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- Legal framework
- IAS check-list
- Surveillance and monitoring
- Existing database
- What's going on with IAS?

# Legal framework

UNDER JURISDICTION OF DIFFERENT SECTORS: nature conservation, environmental protection, marine protection, agriculture, forestry, hunting, fishery, health care et. cet.

MINISTRY OF CULTURE, NATURE PROTECTION DIRECTORATE  
(MoC – NPD)

- central state body competent for nature protection
- one of the main authorities responsible for IAS in Croatia (CBD, Bern Convention, etc.)

STATE INSTITUTE FOR NATURE PROTECTION (SINP)

- central expert institution for nature protection
- collects data and maintains the data base of invasive alien species
- conducts projects on IAS

# Legal framework – nature conservation

Nature Protection Act (OG 70/05, 139/08, 57/11)

Ordinance on the method of preparing and implementing risk assessment studies with respect to introduction, reintroduction and breeding of wild taxa (OG 35/08)

Ordinance on transboundary movement and trade of protected wild species (OG 72/09, 143/10)

Strategy and Action Plan for the Protection of Biological and Landscape Diversity (NBSAP) of the Republic of Croatia (OG143/08)

## Legal framework – IAS in other sectors

Hunting act (OG 140/05, 75/09)

Islands act (OG 34/99, 149/99, 32/02, 33/06)

Animal protection act (OG 135/06)

Marine fishery act (OG 56/10)

Freshwater fishery act (OG 49/05)

Forestry act (OG 140/05, 82/06, 129/08, 80/10)

Ordinance on management and supervision of water ballasts (OG 55/07,  
38/08)

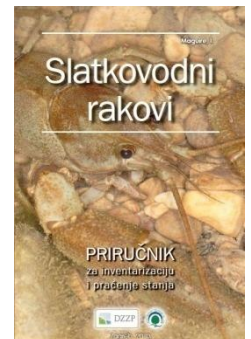
# IAS check-list

- Vascular plants (Borsic et al. 2008)
- Freshwater fish (Mrakovcic et al. 2006)
- Sea fish (Lipej et Dulcic 2010; Dragicevic et Dulcic 2010)
- Freshwater crayfish (Maguire et al. 2011)
  - NO on-line “live” check-list
  - NO risk assessment
  - NO black list

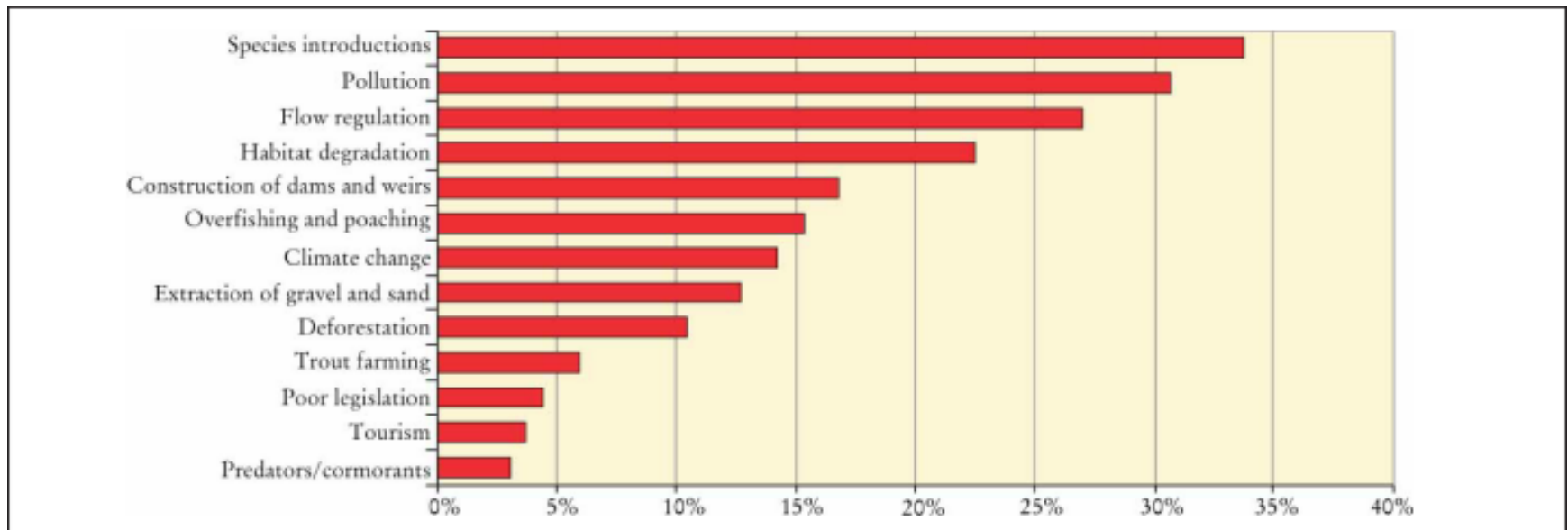
# Surveillance and monitoring

- National monitoring program still doesn't exist
- Monitoring program for *Ambrosia artemisiifolia*, *Caulerpa sp.*, freshwater crayfish
- Manual for inventory and monitoring of biodiversity
  - freshwater crayfish
  - freshwater fish
  - vascular plants

National biodiversity monitoring system - trainings for non-professionals, cooperation with schools in monitoring of threatened plant species

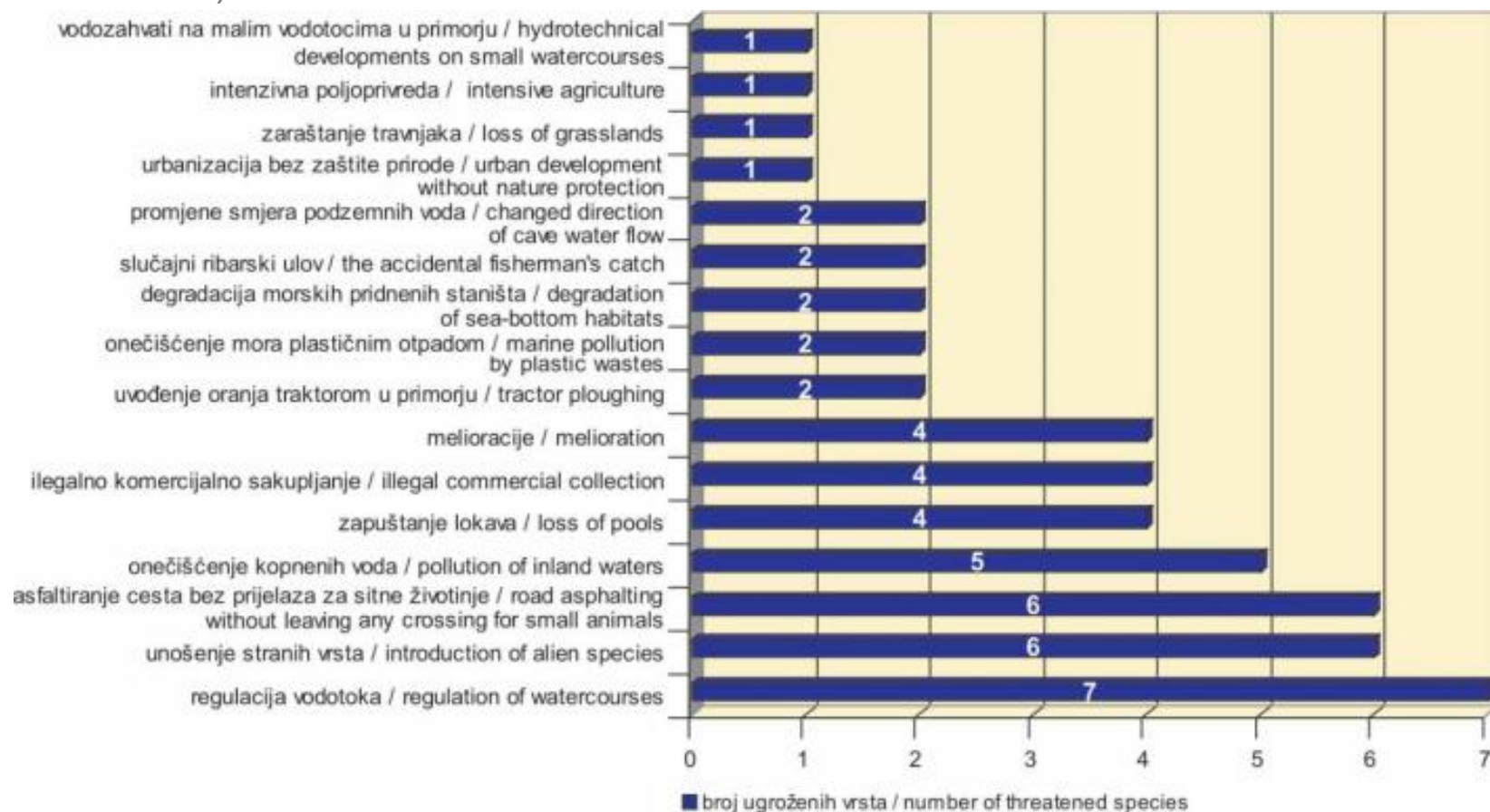


## The most significant threats to freshwater ichthyofauna in Croatia (Mrakovčić et al. 2006)

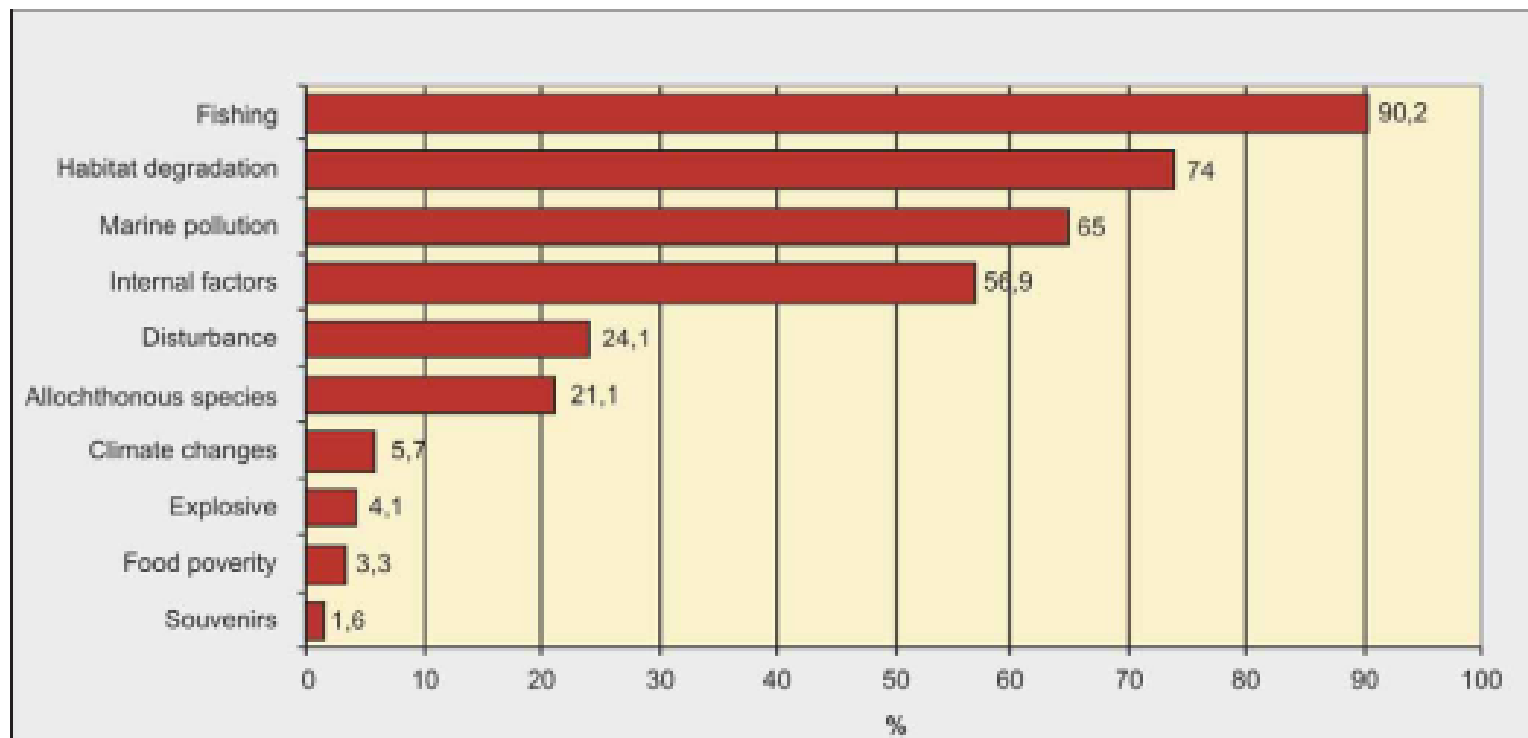




## The most significant threats to amphibians and reptiles in Croatia (Tvrtković et al. 2006)



The most significant threats of fish species for which the assessment of threat in Croatian's fisheries waters has been carried out (Jardas et al. 2008)



# Existing database

- Flora Croatica Database FCD - standard forms with required data about alien plants in Croatia

The screenshot shows the FCD website interface. At the top, there are language options for 'Hrvatski' and 'English'. A banner features the text 'Dobro došli! Welcome!' and the FCD logo. The main title is 'Flora Croatica Allochthonous plants'. A navigation menu includes 'Flora Croatica Database', 'Red book', 'Bibliography', 'Useful plants', 'Allochthonous plants', 'Gallery', and 'Habitats'. Below this, there are links for 'Observations', 'Herbaria', 'Useful links', and 'Show empty map'. A 'How to use database' section contains a 'Login' button and a timestamp '2011-10-17 00:58:13'. The main form area has input fields for 'Family', 'Genus', 'Taxon name', and 'Common name'. The 'Allochthonous type' section is expanded to show a tree of options: '2. Allochthonous' (selected), '2.1 Outside Cultivation', '2.1.1 Naturalised', '2.1.1.1 Invasive', '2.1.1.1.1 Weed', '2.1.1.2 Non-invasive', '2.1.1.2.1 Weed', '2.1.2 Casual', and '2.2 Cultivated'. On the right, there are radio buttons for 'With image', 'Arheofit', and 'Neofit'. At the bottom, there are buttons for 'Očisti obrazac' and 'Search'.

# What's going on with IAS?

- [www.invazivnevrste.hr](http://www.invazivnevrste.hr)
  - on-line database
  - Early Detection and Rapid Response
  - Education and public awareness
  - What to do and how to do
- CRO-fauna database
  - IPA project
  - Deadline – March/April 2012
- NATURA 2000 Implementation Program (NIP)
  - Check lists, georeferencing of literatur and musem data
  - Field inventory
  - World Bank credit
  - Deadline – end of 2012

# What's going on with IAS?

- Preparation of national monitoring program
  - environmental condition indicator
  - Habitat Directiv, Water Framework Directiv, Marine Directive
- Expert register
  - activation of experts
- Proposal for the development of a National Strategy on Invasive Alien Species in Croatia – WWF, author: Riccardo Scalera

# Natural features





- Cooperation with neighboring countries



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Thank you for your attention!

[www.dzzp.hr](http://www.dzzp.hr)