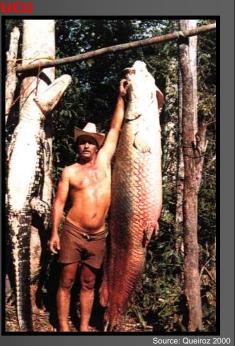
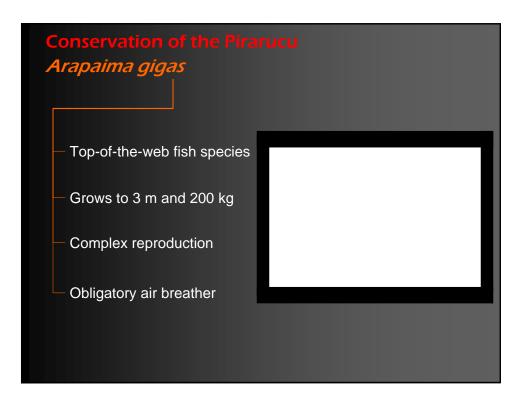


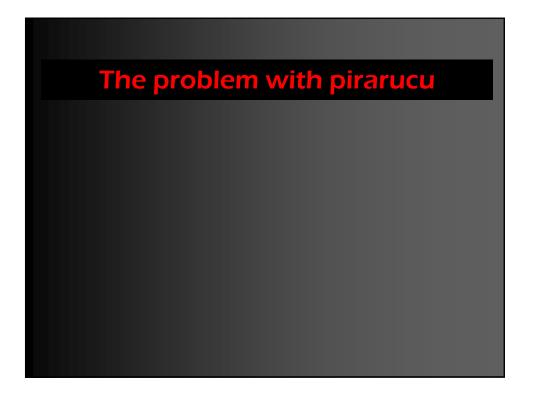
## Conservation of the Piraruc

Arapaima gigas

- Top-of-the-web fish species
- Grows to 3 m and 200 kg
- Complex reproduction







## Conservation of the Pirarucu Arapaima gigas

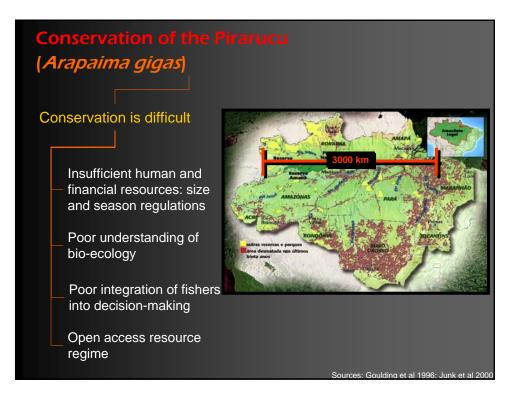
Most important Amazon fishery 1890s

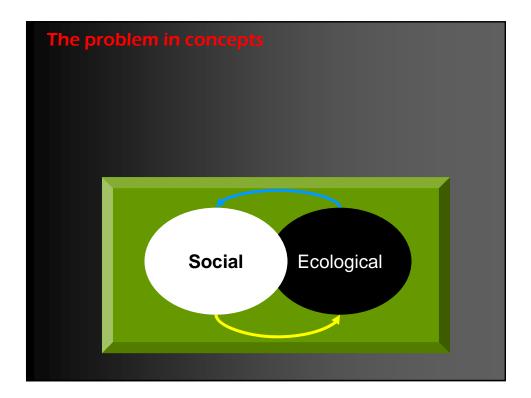
But today is overexploited and even extirpated in a few areas

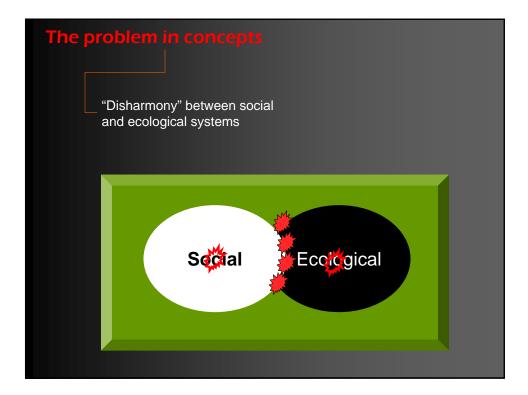
IUCN considers pirarucu vulnerable to extinction



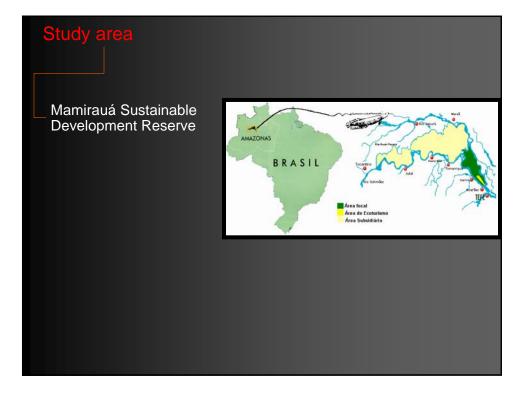
Sources: Goulding et al 1996; IUCN 2002; Verissimo 1895; Pereira 1954 SUDEPE 1987; Queiroz and Sardinha 1999; Martinelli and Petrere 1999



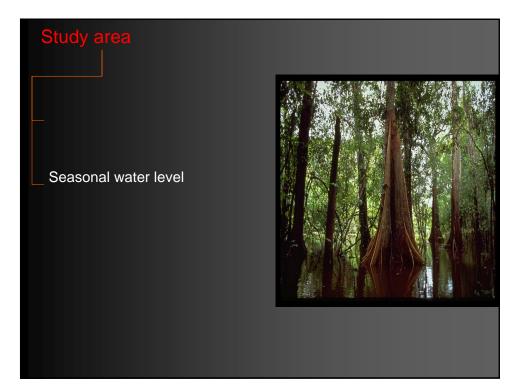


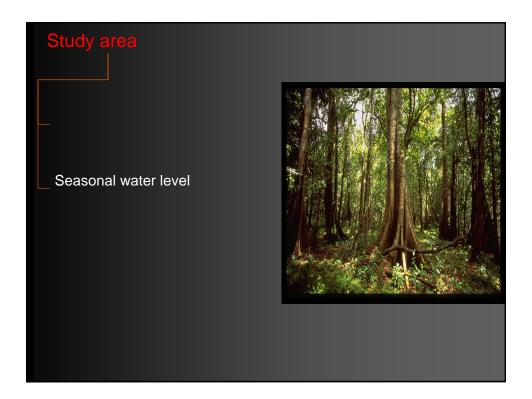




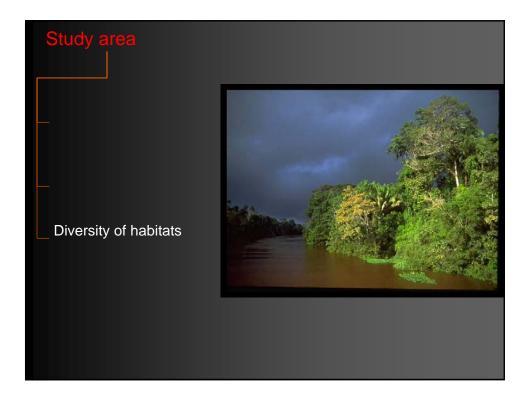










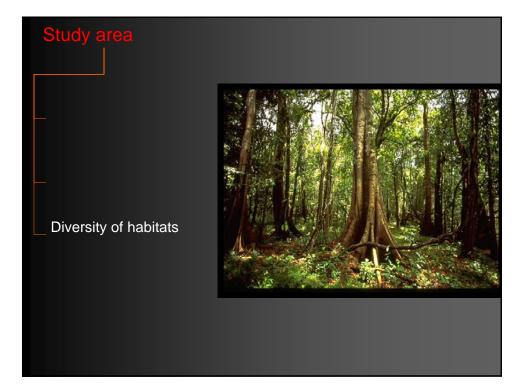


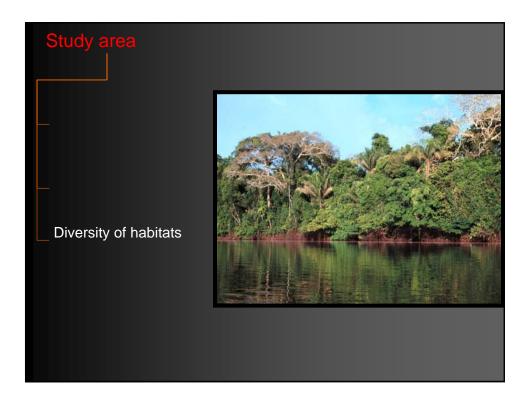




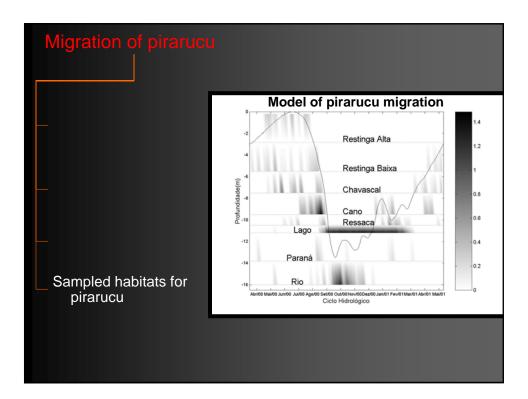


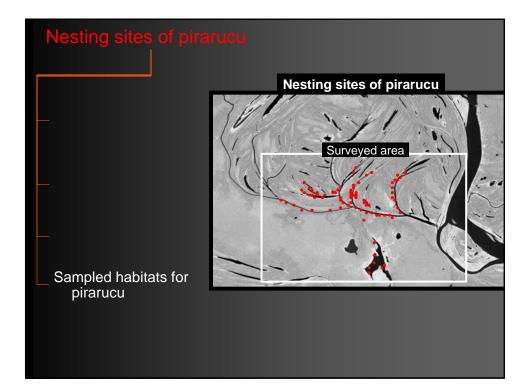


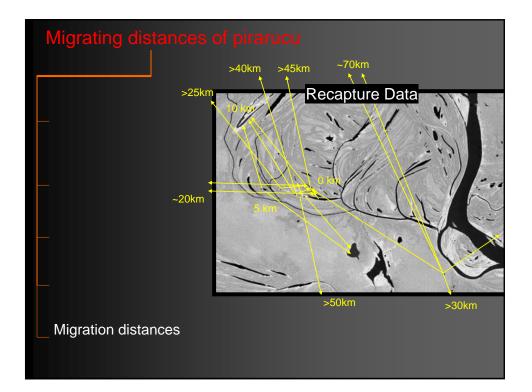








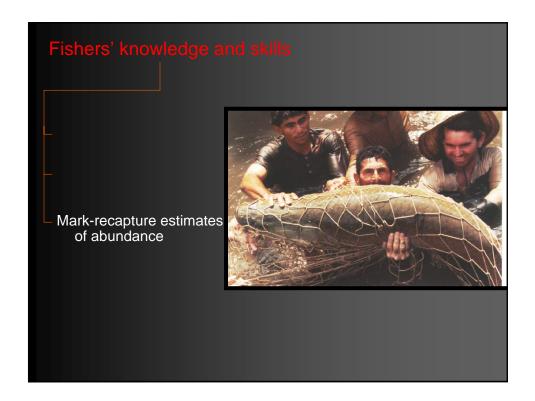


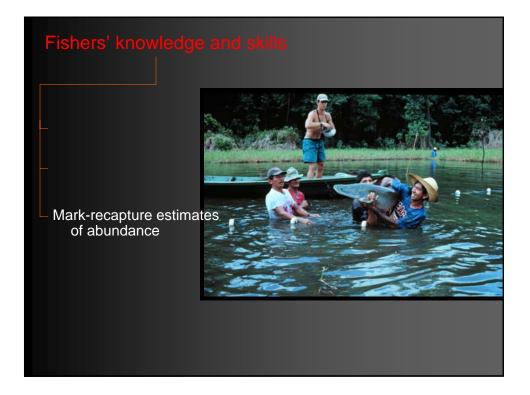


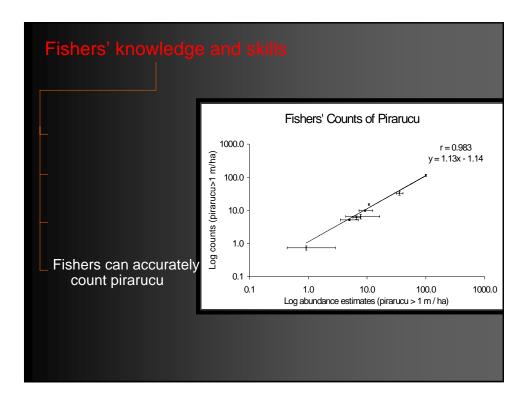


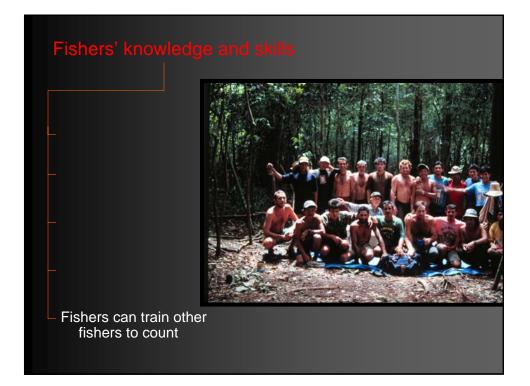




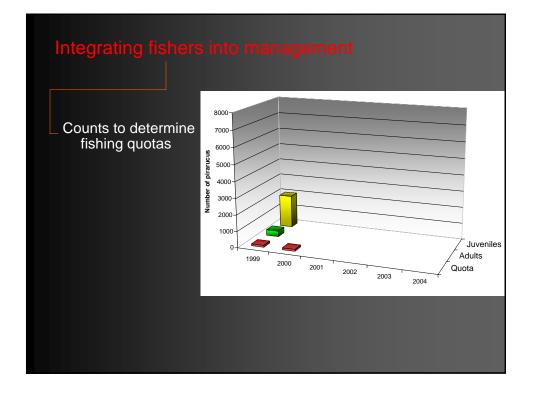


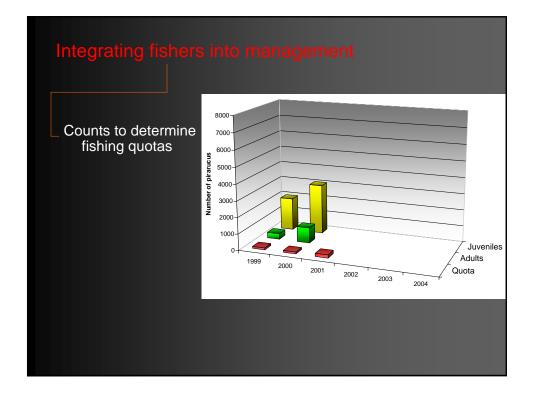


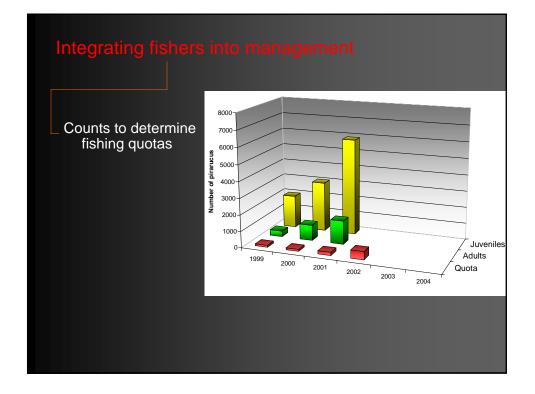


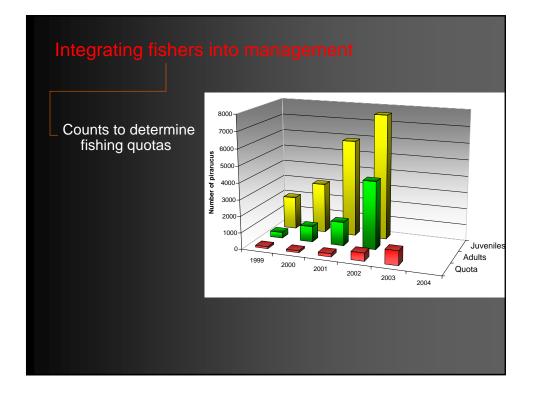


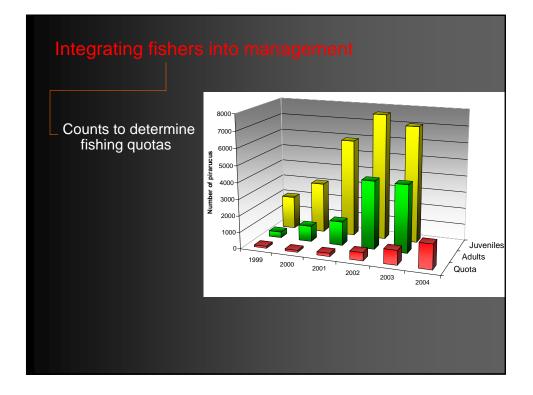












### Integrating fishers into management

 Model replicated to over 40 communities in Brazil and Guyana



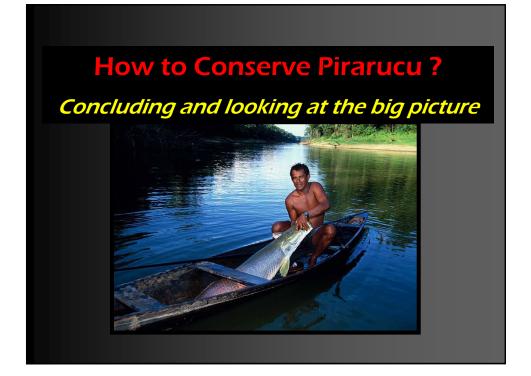


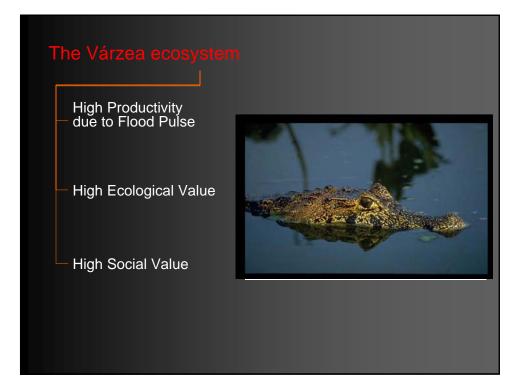


Lack of technical and institutional support



Government does not properly promote fishers' management





### Threats to Várzea

- Extirpation of Keystone Species
- Large-Scale Deforestation



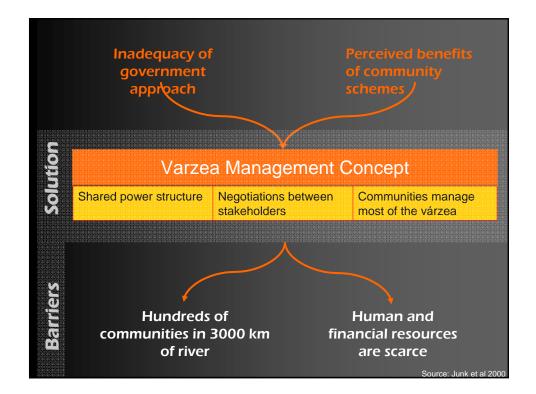
Sources: Goulding et al 1996: Junk et al 2000

### Community-Based Management of Natural Resources

- Local people increasingly manage natural resources sustainably
- Sustainable Use of Fish Resources
- Sustainable Use of Forest Resources



Sources: Pinedo et al 2004; McGrath et al. 1993; 2000; Almeida et al 2002; Viana et al 2003



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# Community-Based Managemen Target the Pirarucu

Over 50% of CBMs focus on pirarucu

Migrate about 10 km/yr

Relatively high commercial value





