



# Status of Inland ENC's - BRAZIL

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# Legal status of Inland ENCs - BRAZIL

- Directorate of Hydrography and Navigation (DHN) is responsible for:
  - Defining guidelines and authorizing the establishment, modifications or permanently cancellation of aids to navigation;
  - producing official nautical charts for maritime and inland waters;

# Main waterways in Brazil



Madeira – 1056 km

Solimões – 1630 km

São Francisco – 1371 km

Tocantins-Araguaia – 2250 km

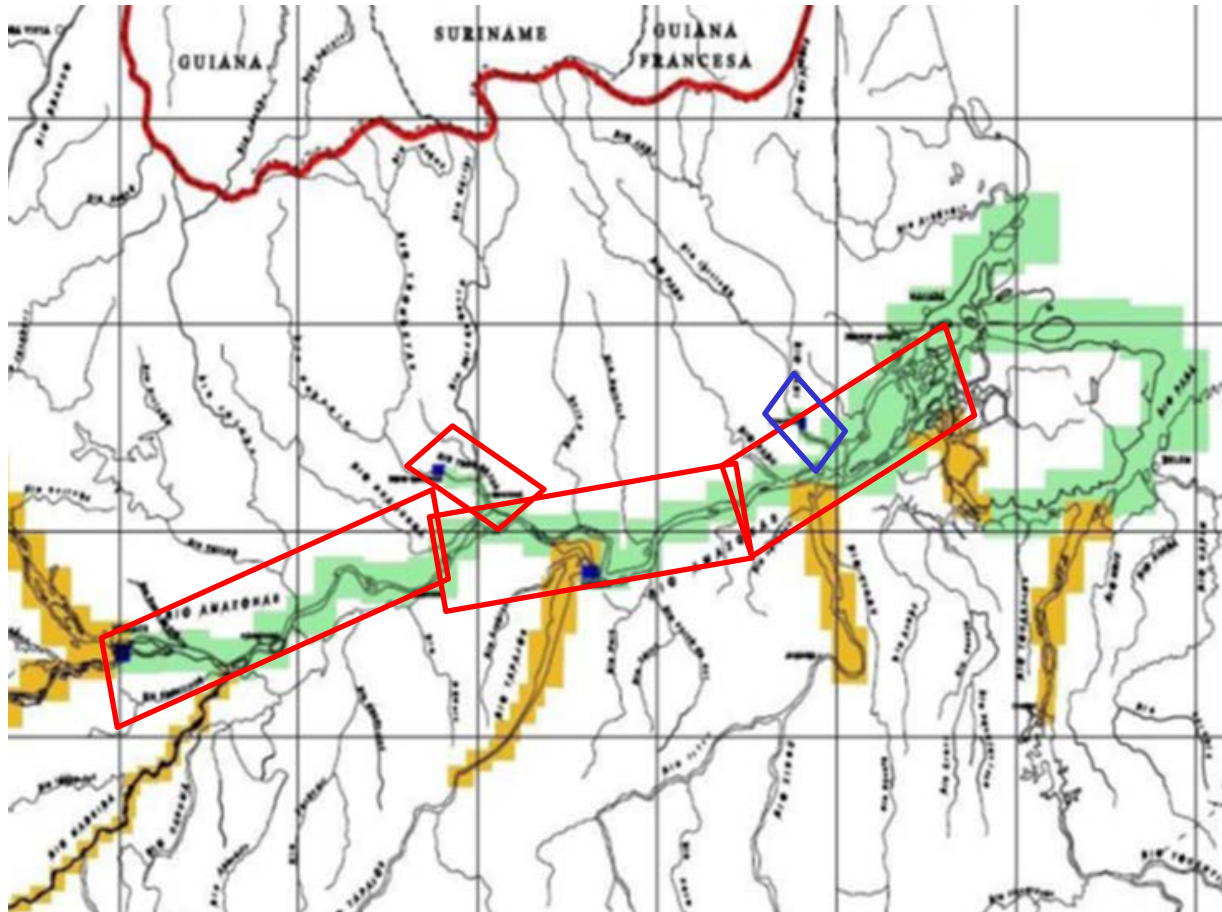
Tietê-Paraná – 2400 km

Paraguay (BR) – 1278 km

SSN-6 – 150 km / year

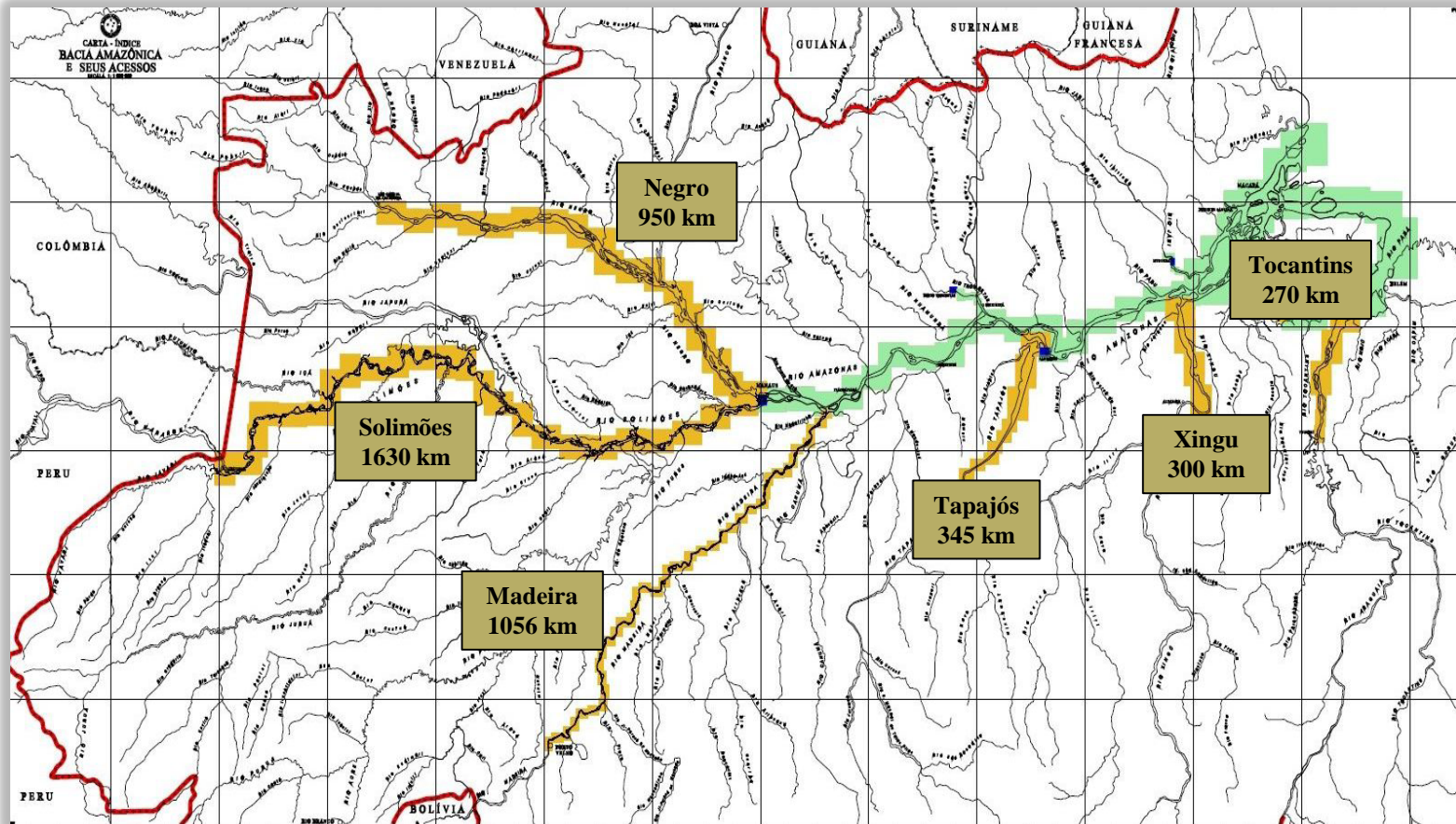
SSN-4 – 8700 km<sup>2</sup> / 2013

# ENCs production for Amazon Basin



**Amazonas River ( 1650 km) – 12 ENCs**  
**Trombetas River ( 110 km) – 3 ENCs**  
**Jari River (100km) – est. 2014**

# Coverage of Inland ENCs Amazon Basin - Planning



Approximately 4500 km





# Paraguay River Inland ENC's

 Maintained on database

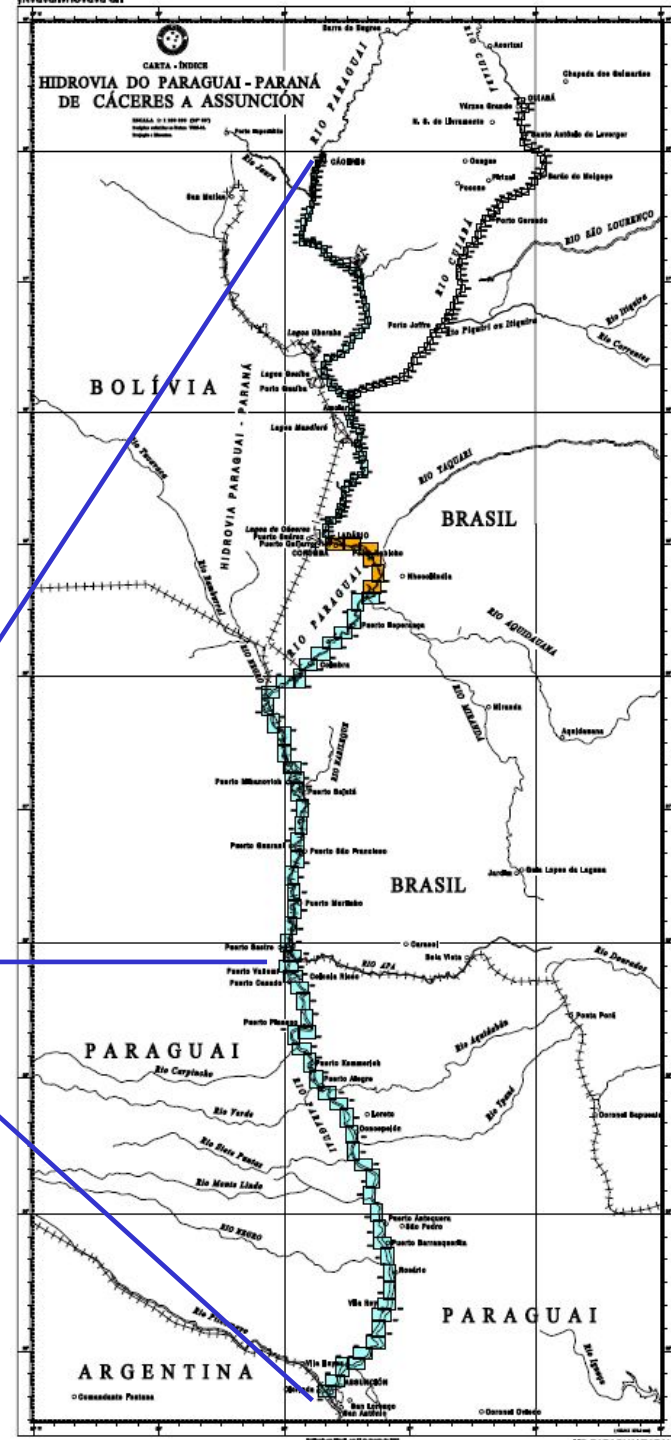
 Prototype area

Planned IENC only for Brazilian section – 1278 km



## Paraguay River (Cáceres – Asunción)

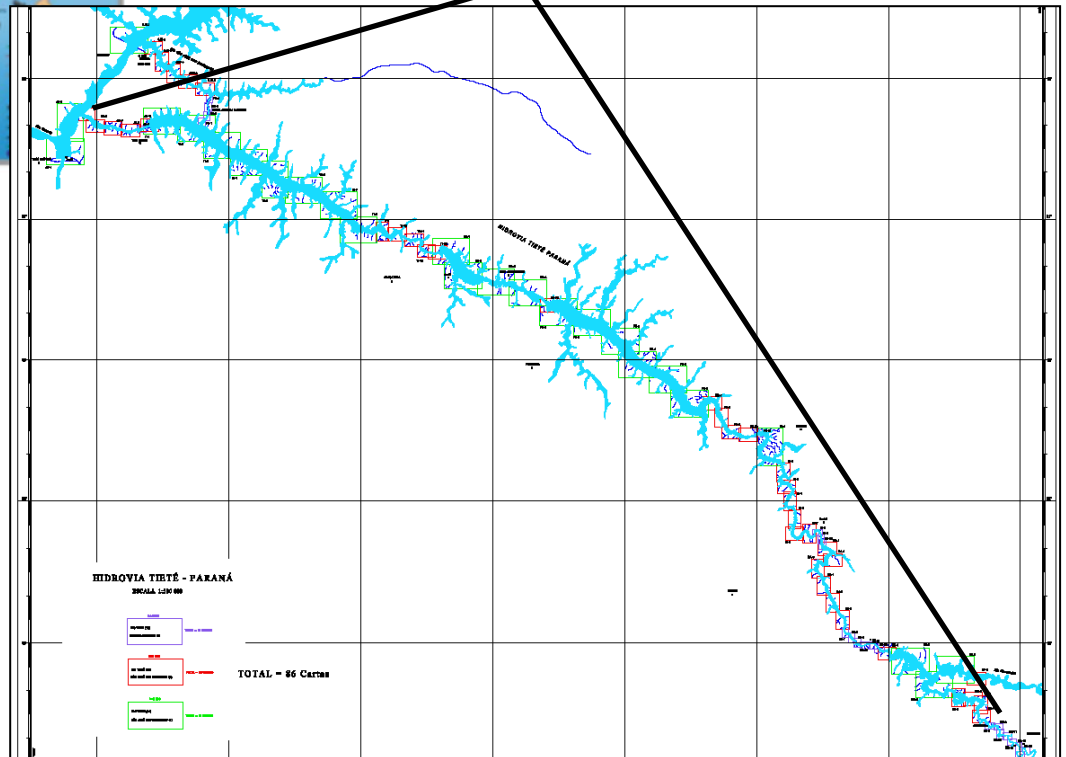
- Brazilian section – 1278 km
- Paraguayan section - 554 km



# Tietê-Paraná Waterway - Planning



Tietê River  
(Conchas – Jupiá)  
595 km



# Present Discussions

**Tests – who, where, how**

**Distribution – free on the web, charged**

**Navigation systems – requirements, certification**



Thank you....