

# **IMPACT OF ENC**

# **PRODUCTION ON**

# **BRAZILIAN DHN**

### (Diretoria de Hidrografia e Navegação)

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20th CHRIS, Niterói 2008

# HILL AND REAL

# **ENC** in-house production

- DHN (CHM) began to gather knowledge in late 90s;
- Few people were qualified for ENC production;
- Difficulties with English idiom and software tools;
- Lack of in-house expertise;
- No funds for systematic training;
- Few cells produced, none distributed.



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# **ENC production recently**

- technical visits in HOs (UKHO, CHS, IH, SHOA);
- representatives in IHO committees and WG (latest 5 years);
- bilateral agreement with UKHO, including IC-ENC co-operation for ENC distribution;
- investments in people qualification and training;
- Brazilian ENC schema established in 2008 (156 cells);
- Private company contracted in November 2007 for data capture (156 ENCs) to accomplish the ENC coverage by 2010;
- ISO 9001:2000 certification for Nautical Charts Production and Planning (last week).



## **ENC Planning**

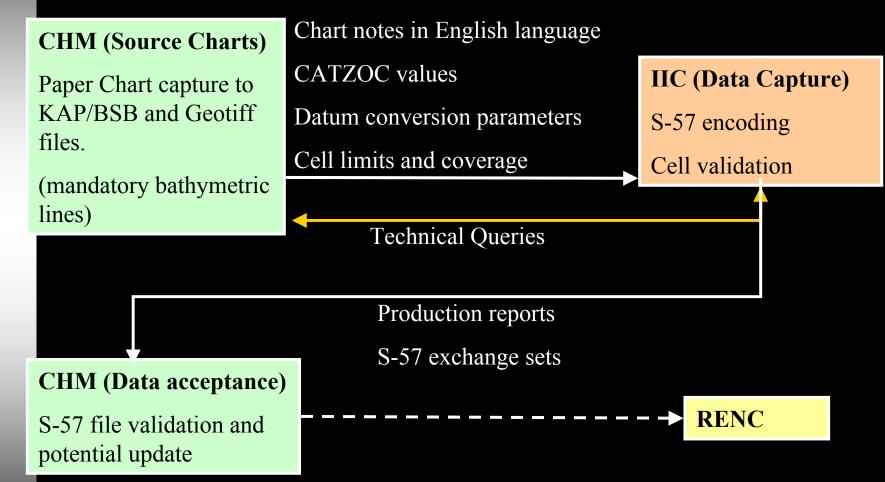
|                      | 2008             |                   | 2009             | 2010             |
|----------------------|------------------|-------------------|------------------|------------------|
|                      | PLANNED<br>(54%) | PRODUCED<br>(51%) | PLANNED<br>(25%) | PLANNED<br>(21%) |
| OVERVIEW/<br>GENERAL | 3                | 3                 | 3                | 3                |
| COASTAL              | 11               | 11                | 9                | 6                |
| APPROACH             | 34               | 32                | 17               | 20               |
| HARBOUR/<br>BERTH    | 37               | 34                | 10               | 3                |

#### TOTAL AVAILABLE: 80 of 156 (Oct2008)

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# **ENC** outsourcing production workflow

List of Lights info



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# **ENC** production challenges

- Metadata collection and organization;
- Production Database to resolve inconsistency problems;
- New surveys in critical areas with no eligible data;
- To keep people proficiency.

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## Thank you ...

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