ICA generalisation workshop - April 2003 - Paris

Group 2 discussion

DATABASE ISSUES

Multiple representation

Incremental update

Topological modelling

Members of the group

- Bianca Baella - ICC
- Karl Heinrich Anders - U Hannover
- Novit Kreiter - SwissTopo
- Cécile Lemarié - IGN Carto2001 Project
- Sébastien Mustière - IGN COGIT
- Peter Rosenstand - KMS
- Patrick Revell - LaserScan
- Jenny Trévisan - IGN COGIT

TOPICS

- Group consisted mostly of mapping agencies, so discussion centered around « What are the issues ?» rather than « What are the solutions ? ».

- Three points were discussed :

  - How to derive DCMs from DLMs ?

  - Multiple DBs modelling

  - Incremental updating

How to derive DCMs from DLMs?

- Different routes can be taken to derive a DCM (cartographic) from a source DLM (topographic). The group don't know which is the best and if there is a best. It could be a point to investigate…

-- Directly from the original DLM (whatever the scale is) ?

-- Derived from one another ?

-- Derived from a derived DLM ?

Derive DCMs ?
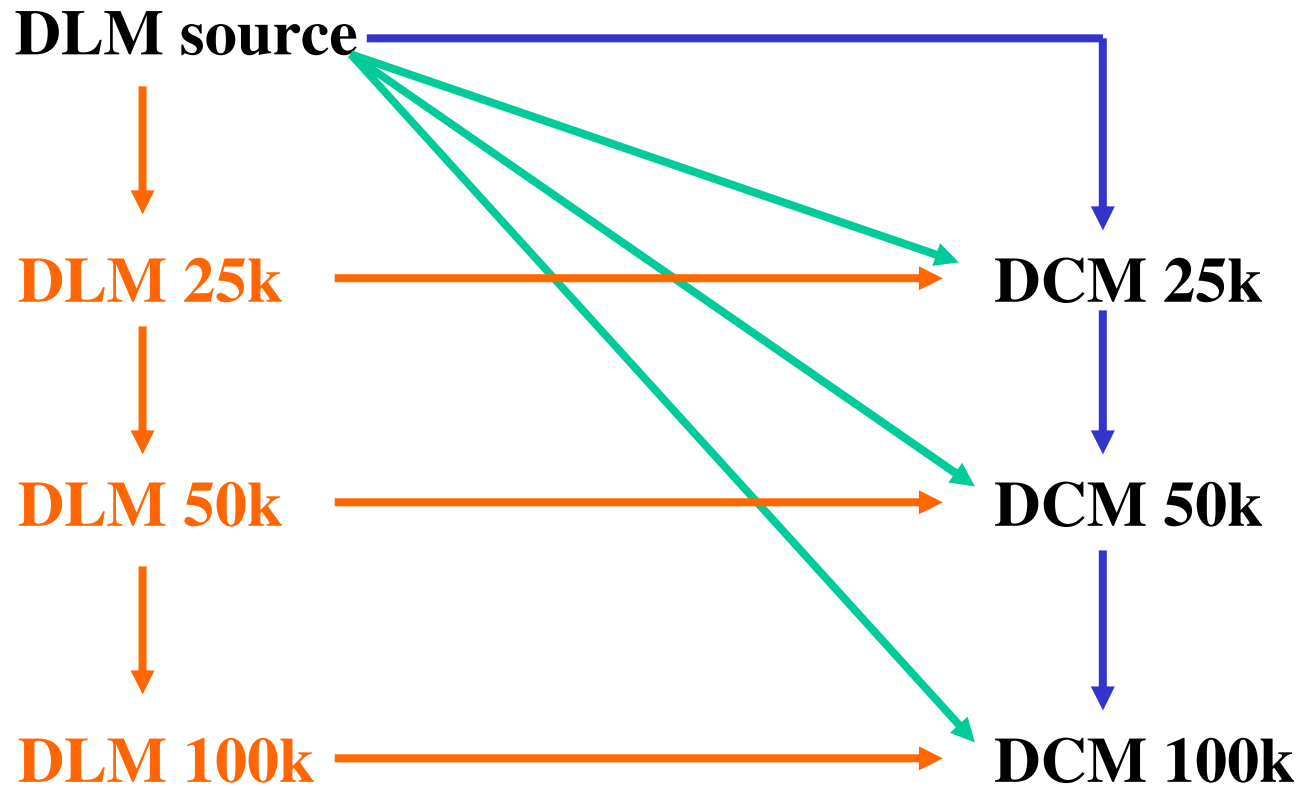
DLM source

DLM 25k → **DCM 25k**

DLM 50k → **DCM 50k**

DLM 100k → **DCM 100k**

-- Directly from the original DLM (whatever the scale is) ?
-- Derived from one another ?
-- Derived from a derived DLM ?

Multiple DBs modelling

- The question is : how to model multiple BDs ? For example, when you have a DCM25 and a DCM50 derived from the same data.

  – Store multiple geometry on one object in the same DataBase ?

  – Use separate models or separate DataBases ?

=> the group consider that multiple geometry is tempting but not sufficient

Incremental updating

- About updating (DLMs and DCMs) :

Links between source and derived objects are absolutely necessary. It's easier to anticipate their creation before the derivation.

It's very usefull to store the automatic and manual operations used to go from the source to the derived in order to propagate the updating.