Deriving trends in cartography from ICA's past and geography

Menno-Jan Kraak

ICA

ICA's Members and International Cartographic Conferences

What do we do?

- The mission of the ICA is to promote the disciplines and professions of Cartography and GIScience in an international context.
The Commissions and working Groups over time

- Commissions are core to ICA's success
- Commissions follow their ToR to reach ICA's objectives
- Commissions act globally
- Commissions might execute specific ICA tasks incorporated in their ToR

ICA and its Commissions and Working Groups

Commission and Working Groups over time
Location Executive Committee members over time

Executive Committee members by country over time

Cartography and maps

Sustainability of the definition
Spatializations of International Cartographic Conferences

Commissions and conference proceedings

<table>
<thead>
<tr>
<th>Commissions existing at least ten conferences</th>
<th>Number of submissions</th>
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<tbody>
<tr>
<td>Education</td>
<td>1993 Cologne</td>
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<tr>
<td>History</td>
<td>1996 Barcelona</td>
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<td>Marine</td>
<td>1997 Stockholm</td>
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<td>1999 Ottawa</td>
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<td>2001 Beijing</td>
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<td>2003 Durban</td>
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<td>2005 Coruna</td>
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<td>2007 Moscow</td>
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<td>2008 Santiago</td>
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<td>History</td>
<td>2011 Paris</td>
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<tr>
<td>History</td>
<td>2013 Dresden</td>
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</tbody>
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Changes

- **Yesterday**
  - Carefully crafted ‘authoritative’ products (cartographers)
  - Filling gaps to present the essence of the message

- **Today**
  - Participatory perspective: cartographers & mapmakers
  - Big data: creating summaries
  - Map environments: Web, AR, VR
Maps

- A map is a visual representation of an environment
  - maps tell stories
  - maps invite
  - maps show patterns
  - maps reveal relationships
  - maps explain
  - maps provide overview
  - maps offer insight

- Maps that matter should raise interest, be engaging, instantly understandable, and be relevant to society

ICA's International Map Year [mapyear.org]

Why we are needed ... to avoid my worst nightmares

Why we are needed ... to avoid my worst nightmares
A smart future

- **Cartography** is ready for tomorrow. However, we have to remain innovative and open, so we can handle societal and technological changes, without compromising on fundamental cartographic values, but also be willing to extend these values.

- The **map** has become an interactive, mobile, dynamic and collaborative interface between humans and the dynamically evolving environment.

- Today’s **cartographer** should be creative and be able to design maps for personalized interaction to reveal (hidden) stories. The cartographer should be able to code to hack the data, be cooperative with both graphic designers and data visualizers as well as (geo)scientists who know the problems and stories behind the data.

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**Where to find some of the trends and challenges**

Special (open) research issue 2017-01 with contributions of the Commissions of

- Cognitive issues in geographic information visualization
- Use, Users and usability issues
- Visual Analytics

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**Let’s make the world a better place with maps**