ICA and Cartography in a changing world

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ICA and Cartography in a changing world

• Introduction
• ICA’s geography and history
• Trends in maps & cartography
• Conclusion

ICA's Member and International Cartographic Conferences

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

- **1964-1968**
  - Data: Automation
  - Planetary Cartography

- **1968-1972**
  - Education
  - Marine
  - Terminology
  - Technology

- **1972-1976**
  - Automation
  - Technology
  - Base Maps
  - Topographic Mapping

- **1976-1980**
  - Computer Ass.
  - Education
  - Satellites
  - History

- **1980-1984**
  - Computer Ass.
  - Education
  - Satellite
  - History

- **1984-1987**
  - Computer Ass.
  - Education
  - Satellite
  - History

- **1995-1999**
  - Visualization
  - Quality
  - Atlasses

- **1999-2003**
  - Education
  - Visualization
  - Standards

- **2003-2007**
  - Visualization
  - Standards
  - Education

- **2007-2011**
  - Sustainability
  - Open source
  - Visualization

- **2011-2015**
  - Early Warning
  - Open source
  - Visualization

- **2015-2019**
  - Sustainability
  - Open source
  - Visualization

**Origin of Commission and Working Group Chairs**

- Names as of today
- United States
- Germany
- Canada
- South Africa
- Mexico
- France
- China
- Korea
- India
- Poland
- Belgium
- Denmark
- Finland
- Greece
- Hungary
- Spain
- Switzerland
- United Kingdom
- Sweden
- Croatia
- Australia

**Crisis Management**

- United States
- United Kingdom
- China
- Germany
- Poland
- Belgium
- Denmark
- Finland
- Greece
- Hungary
- Spain
- Switzerland
- United Kingdom
- Sweden
- Croatia
- Australia
What do we do?

- The mission of the ICA is to promote the disciplines and professions of cartography and GIScience in an international context.

Cartography and maps

<table>
<thead>
<tr>
<th align="left">CARTOGRAPHY</th>
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<tbody>
<tr>
<td align="left">art</td>
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<td align="left">making</td>
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<td align="left">using</td>
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<tr>
<td align="left">MAPS</td>
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</tbody>
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Tools

Process

About Cartography (tools)

- ...the art, science, and technology of making and using maps.

Bertin’s Data Analysis

- Many ‘correct’ design options
But …… some off my nightmares

Population of Estonia’s provinces in 2012

Number of inhabitants

Population of Estonia’s provinces in 2012

Estonia’s population in 2012

About Cartography (tools)

• …the art, science, and technology of making and using maps

Internet, Displays, Mobile

About Cartography (process)

• …the art, science, and technology of making and using maps

About Cartography (process)

make
update coastline

Professionals & Crowd

Everyone

a to b = 50km
Changes

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

- **Today**
  * Participatory perspective (cartographers & mapmakers)
  * Big data

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

Sustainability of the definition

ICA’s International Map Year [mapyear.org]

- How can maps be relevant for the global goals?
What about Maps and Sustainability

Cartography / Maps

Sustainability

Global Development Goals

Poster Structure

TOP

MIDDLE

BOTTOM

Target

Indicator

Commission

Perspective

Story

Take home message

An example

Map design makes a difference because it is key to effective communication

At the UN-GGIM
Let's make the world a better place with maps