Tomorrow’s cartography

• Organization
• Domain
• Focus
• Design your map
• The book
• Conclusions
Organization

ICA
ACI
ICA’s Members and International Cartographic Conferences

- 1962: Frankfurt am Main
- 1964: London/Edinburgh
- 1967: Amsterdam
- 1968: Delhi
- 1970: Stresa
- 1972: Ottawa
- 1974: Madrid
- 1976: Moscow
- 1978: College Park
- 1980: Tokyo
- 1982: Warszawa
- 1984: Perth
- 1987: Budapest
- 1989: Colmar
- 1991: Bournemouth
- 1993: Cologne
- 1995: Barcelona
- 1997: Stockholm
- 1999: Ottawa
- 2001: Beijing
- 2003: Durban
- 2005: Coruna
- 2007: Moscow
- 2009: Santiago
- 2011: Paris
- 2013: Dresden
- 2015: Rio de Janeiro
- 2017: Washington
- 2019: Tokyo
- 2021: Florence
Executive Committee members by country over time

INDONESIA  
CHILI  
HONG KONG  
AUSTRALIA  
KENYA  
SOUTH AFRICA  
FINLAND  
BRASIL  
PHILIPPINES  
CZECHIA  
HUNGARY  
MEXICO

CHINA

AUSTRALIA
POLAND
SPAIN
JAPAN
MOROCCO
CANADA
INDIA
RUSSIA
NETHERLANDS
SWITZERLAND
ITALY
GERMANY
FRANCE
SWEDEN
UNITED KINGDOM
UNITED STATES

Yuju Hu
Li Li
Yaolin Liu

Cartography is the science, art, and technology of making and using maps.
Cartography over time

YESTERDAY: Map as an artifact

TODAY: Map as a service

TOMORROW: Map as an embodied experience
Yesterday: map as artifact
Today: map as a service
Tomorrow: map as embodied experience

Private / external
Internalized
ICA’s objective
ICA’s posters
ICA’s objective

Offer guidelines and best practices for mapping the UN SDG indicators by…

- Transfer knowledge and expertise via the book *Mapping for a sustainable world* and various training related activities
WHY?
Exercise: design your own map
Design & draw the map legend
<table>
<thead>
<tr>
<th>Name</th>
<th>Gl index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afghanistan</td>
<td>0.67</td>
</tr>
<tr>
<td>Cote d'Ivoire</td>
<td>0.67</td>
</tr>
<tr>
<td>Angola</td>
<td>0.57</td>
</tr>
<tr>
<td>Cameroon</td>
<td>0.64</td>
</tr>
<tr>
<td>Albania</td>
<td>0.66</td>
</tr>
<tr>
<td>Dem. Rep. Congo</td>
<td>0.66</td>
</tr>
<tr>
<td>United Arab Emirates</td>
<td>0.66</td>
</tr>
<tr>
<td>Congo</td>
<td>0.59</td>
</tr>
<tr>
<td>Guinea</td>
<td>0.59</td>
</tr>
<tr>
<td>Channel Islands</td>
<td>0.59</td>
</tr>
<tr>
<td>Germany</td>
<td>0.59</td>
</tr>
<tr>
<td>Croatia</td>
<td>0.59</td>
</tr>
<tr>
<td>Belgium</td>
<td>0.59</td>
</tr>
<tr>
<td>Brazil</td>
<td>0.59</td>
</tr>
<tr>
<td>Burkina Faso</td>
<td>0.59</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>0.59</td>
</tr>
<tr>
<td>Dominican Rep.</td>
<td>0.59</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>0.59</td>
</tr>
<tr>
<td>Algeria</td>
<td>0.59</td>
</tr>
<tr>
<td>Burundi</td>
<td>0.59</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>0.59</td>
</tr>
<tr>
<td>Bolivia</td>
<td>0.59</td>
</tr>
<tr>
<td>Brazil</td>
<td>0.59</td>
</tr>
<tr>
<td>Brunei</td>
<td>0.59</td>
</tr>
<tr>
<td>Bhutan</td>
<td>0.59</td>
</tr>
<tr>
<td>Botswana</td>
<td>0.59</td>
</tr>
<tr>
<td>Central African Rep.</td>
<td>0.59</td>
</tr>
<tr>
<td>Canada</td>
<td>0.59</td>
</tr>
<tr>
<td>Switzerland</td>
<td>0.59</td>
</tr>
<tr>
<td>Chile</td>
<td>0.59</td>
</tr>
<tr>
<td>China</td>
<td>0.59</td>
</tr>
</tbody>
</table>

This table lists countries with their gender inequality index (Gl index) values.
Design & draw the map legend
Your work
1. Data analysis

2. Select map or diagram

3. Select base map

4. Find required perceptual properties

5. Select visual variables

6. Select symbology

7. Select map type

8. Apply design style
Gender Inequality Index

- No Data
- 0.04 - 0.14
- 0.15 - 0.33
- 0.34 - 0.50
- 0.51 - 0.77
Choice of color - what do you want to tell?
Map projections

Gender Inequality Index

- No Data
- 0.04 - 0.14
- 0.15 - 0.33
- 0.34 - 0.50
- 0.51 - 0.77
The book
Mapping for a sustainable world
1. Introduction

2. Sustainable Development Goals and geospatial temporal data

3. Cartographic Design

4. Maps and Diagrams

5. Use Environments

6. Epilogue
Tomorrow’s cartography

• We should realize that under all circumstances the cartographic workflow is a chain of many decisions which have far wider implications than realized

• Be aware on what and how to map
  
  Educate map makers

• Be aware of what to see in maps
  
  Train map users
Let’s make the world a better place with maps
Mapping for a sustainable world