Book proposal by ICA

Working title **"*Mapping the Sustainability Development goals - ICA's best practice*"**

Objective is to offer practical cartographic knowledge to those who want to map the SDGs. This based on the experiences of the Commissions and Working Groups of the International Cartographic Association. The book will provide a brief overview / guideline on how to design maps based on SDG-data with many examples of do's and don'ts.

Background

How can ICA help realize United Nations' 2030 agenda for sustainable development. How can we cartographers be relevant to society in helping to reach these targets? First, well-crafted maps can effectively visualize currently known facts, and online mapping technology can disseminate these facts globally to increase awareness of the current state of affairs. Interactive map dashboards connected to geographic databases at multiple scales and equipped with space-time analytical functions will allow decision makers on various decision levels to monitor and compare indicators for policy development and action at various geographical scales.

Last August during the UNGGIM meeting posters created by ICA on the Sustainable Development Goals were on exhibit in the conferences area in United Nations Headquarters in New York. They can be found at icaci.org/maps-and-sustainable-development-goals. The posters do not map the goals and their targets based on indicators as such. The poster series tells the story of cartographic diversity, of mapping options, and of multiple map perspectives. Each of the goals has been mapped from a particular perspective by different ICA Commission. It is on those ideas the book will built.

Why ESRI as publisher?

- ERSI offer high quality publishing and printing, and has a natural audience that might be interested in this particular topic.
- ESRI has partnered with ICA before (the Cartographic Summit at the beginning of 2016 in Redlands) and has published several volumes of our 'Children books'.
- ESRI with its owner Jack Dangermond, like ICA wants that its activities and knowledge to contribute to a better world.

Competition

In the market, several text books of cartography are available, but these are aimed at students and fellow academics and in general go into much more depth.

Audience

Policy makers, decision makers, researchers in SDG domains who want/have to create maps based on SDG related data.

Table of content (max. 64 pages)

1. Cartography and maps (2 pages) >> definition
2. ICA and its Commissions (4 pages) >> ICA's knowledge domains
3. The Sustainable Development Goals (4 pages) >> background and data characteristics
4. Map content
> 4.1 Base maps (support content, scale, projections, maps versus satellite imagery) (2 pages)
> 4.2 Theme (data analysis, map types) (4 pages)
> 4.3 User environment (paper, online, mobile, mashup, interactive) (2 pages)

5 Maps at work (32 pages)
> 5.1 The examples (good versus bad)
> 5.2 …….
> (a typical page in this section will contain two maps samples, one good, one bad, and includes a textual explanation on bad/good)

Authors

The current ICA President (M.J. Kraak) will be the editor of the book (a co-editor will be appointed). Kraak will also write the sections 1-4. Section 5 will be written by the Commissions.

Timeline

The ICA Commissions will meet in July during the ICC in Washington where the details on section 5 will be discussed and the work will be divided.
It is expected we need a year to complete the draft and that the final product will be available before the following ICC meeting in Tokyo 2019.

Experience with book projects

- Kraak, M. J. (2014) Mapping Time: Illustrated by Minard's Map of Napoleon's Russian Campaign of 1812. Redlands, Esri Press 2014.
- Kraak, M.J. & F.J. Ormeling (2010) Cartography: Visualization of Spatial DataPrentice-Hall; 3rd Revised edition (translations in Chinese, Dutch, Indonesian, Russian, and Polish)
- Experience with book projectsDykes, J., A. M. MacEachren, et al., Eds. (2005). Exploring geovisualization. Amsterdam, Elsevier.
- Kraak, M. J. and A. Brown, Eds. (2000). Web Cartography - developments and prospects. London, Taylor & Francis.