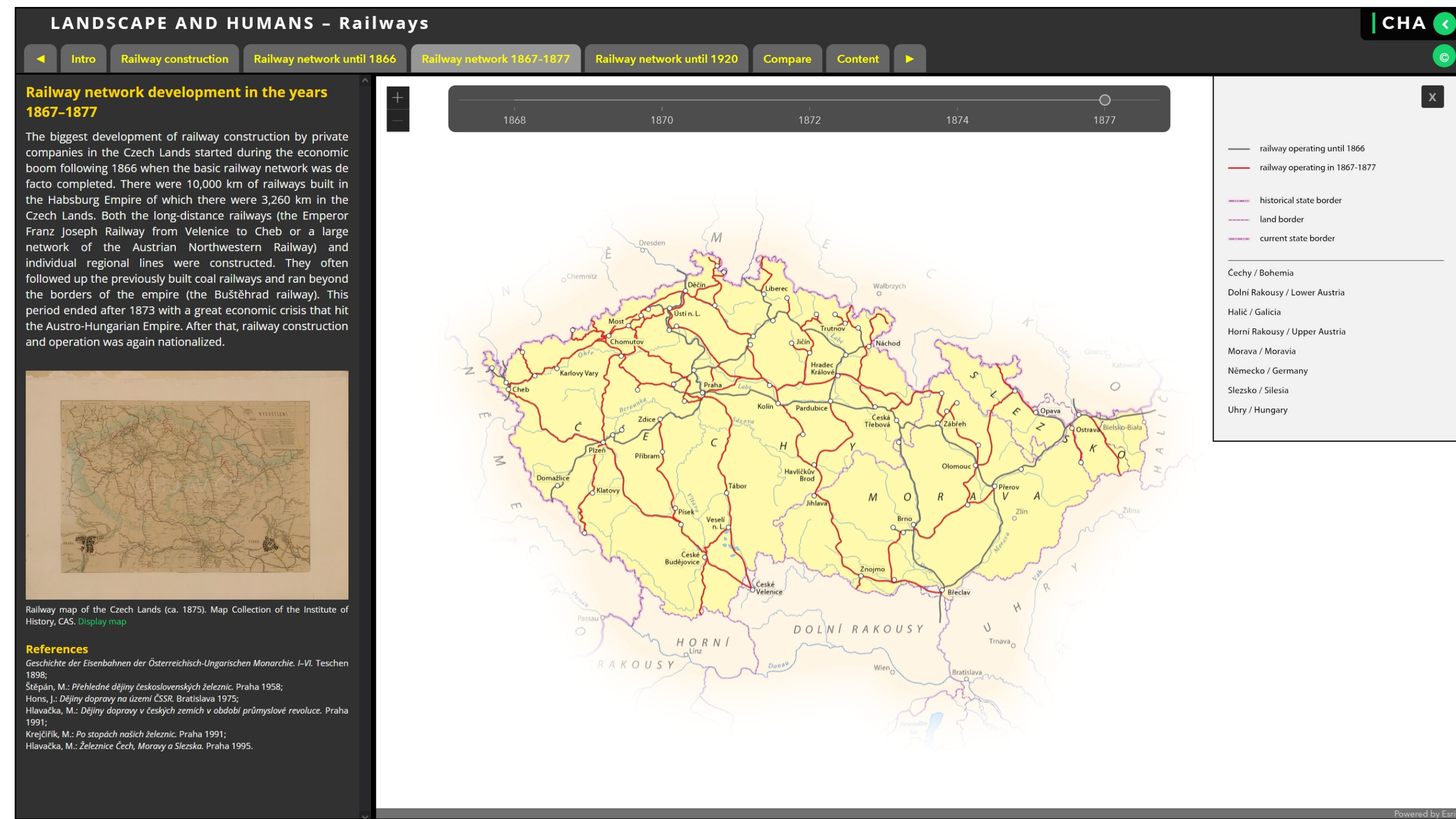# CZECH HISTORICAL ATLAS: A web map portal on the Czech history

Petra Jílková (petra.jilkova@fsv.cvut.cz) and *Jiří Krejčí (jirikrejci@fsv.cvut.cz), Department of Geomatics, Faculty of Civil Engineering, Czech Technical University in Prague*

The content of the portal is divided into eight basic chapters - Borders and Territories, Borders and Regions, Czech State and Europe in the 20th Century, Populations, Religion and Faith, Historical Milestones, Periods and Consequences, War Conflicts and Their Consequences and Landscape and Humans. Each of the chapters is further divided into several subchapters, which represent separate web map applications, that present a set of maps related in time or subject matter. The map applications are supplemented by accompanying texts with a list of basic literature that briefly introduce the thematic subchapter or the content of the individual maps. The texts are accompanied by a number of illustrations from the collections of the Institute of History of the CAS and other important memory institutions or from private collections of the authors. These illustrations (old maps, period photographs, etc.) significantly illustrate the thematic content of the maps and enrich the perception of historical processes through cartographic representation.
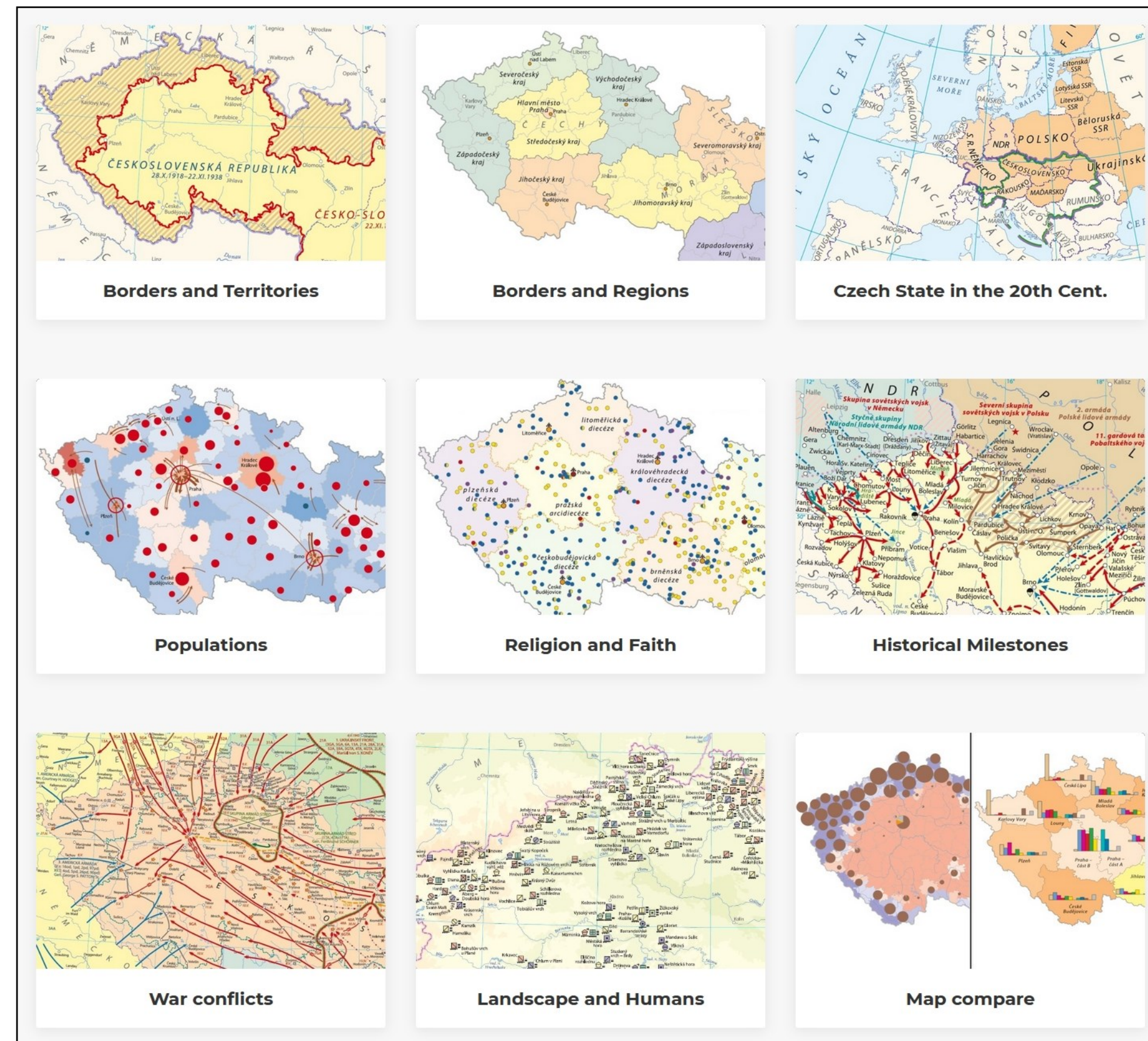
Users of the web map portal (general public or historians) will appreciate comprehensive content presented in a unified way, the possibility to compare and understand historical events as a whole, the added functionality of web-based map applications that improve user interaction with the map, or the list of related topics to each of the subchapters. The portal is available in both Czech and English.

8 chapters 42 map applications 162 maps 279 illustrations

LANDSCAPE AND HUMANS – Railways

RELIGION AND FAITH – Pilgrimages

The map processing and the implementation of the map portal was primarily based on Esri technology. Map layers and web maps were published using ArcGIS Server. The web map applications and its funcionality were built on ArcGIS API for Javascript v. 4.17. Besides the basic funcionality - zooming in and out, overall view, switching layers, etc., applications offer advanced functions allowing more efficient work with the map, its map content and additional information. These are mainly highlighting the active layer element under the mouse cursor, displaying additional information (attributes) of the element, time slider - timeline allowing for sequential display of data with a time component, filtering the displayed content according to selected attribute values, comparison of multiple maps in multiple windows.
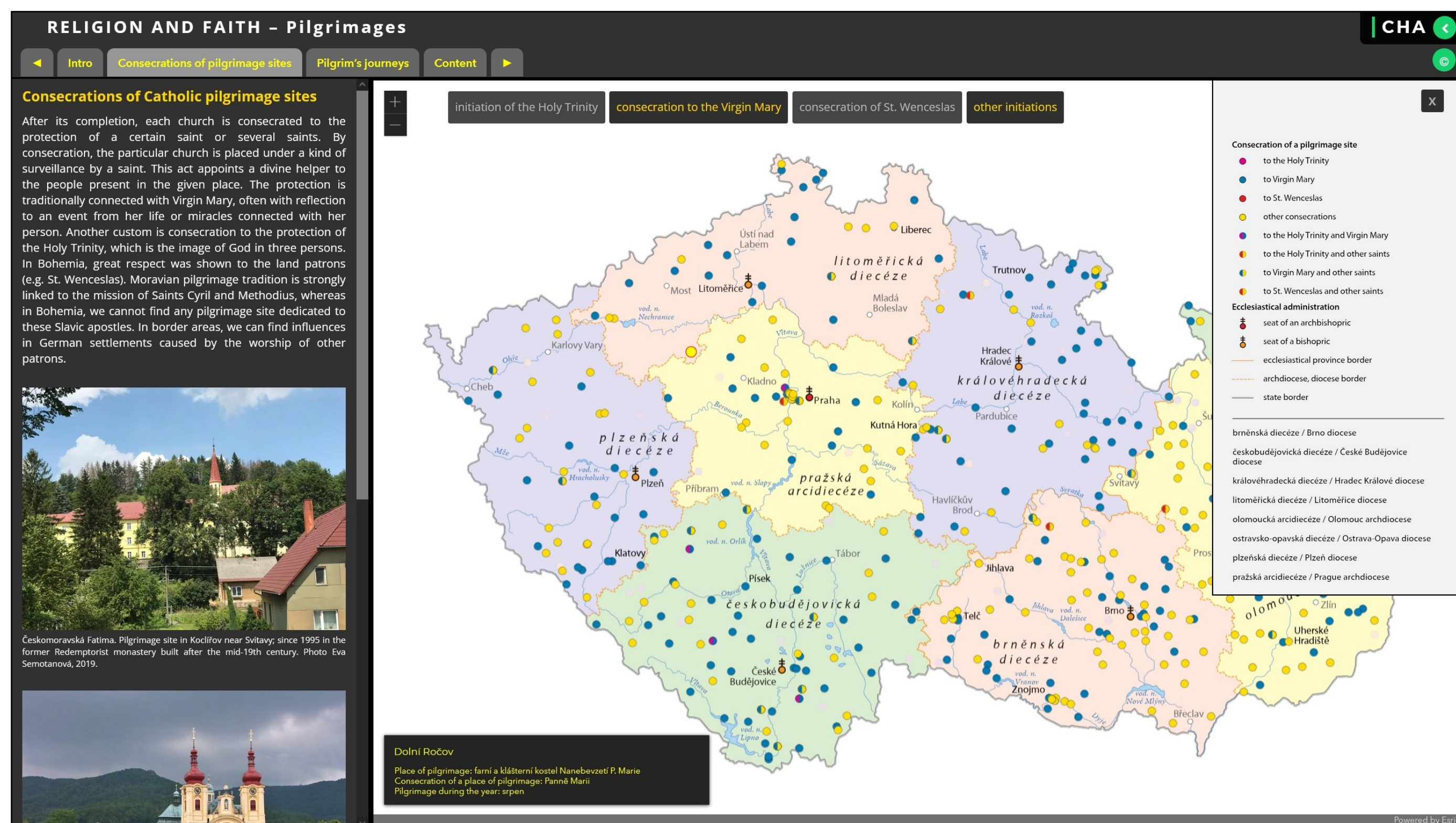
www.czechhistoricalatlas.cz

The web map portal Czech Historical Atlas is a digital output of the synthesis of two printed historical atlases published as part of a long-term cooperation between a team of cartographers from the Department of Geomatics at the Czech Technical University in Prague and a team of historians from the Historical Institute of the Czech Academy of Sciences – *Czech Historical Atlas* and *Academic Atlas of Czech History*.

The topics and chapters from these two atlases have been carefully selected and combined in order to effectively present historical topics related to the geographical area of the Czech lands to the general public, with the use of modern cartographic methods and the available functionality of the web environment.

Borders and Territories | Borders and Regions | Czech State in the 20th Cent. | Populations | Religion and Faith | Historical Milestones | War conflicts | Landscape and Humans | Map compare
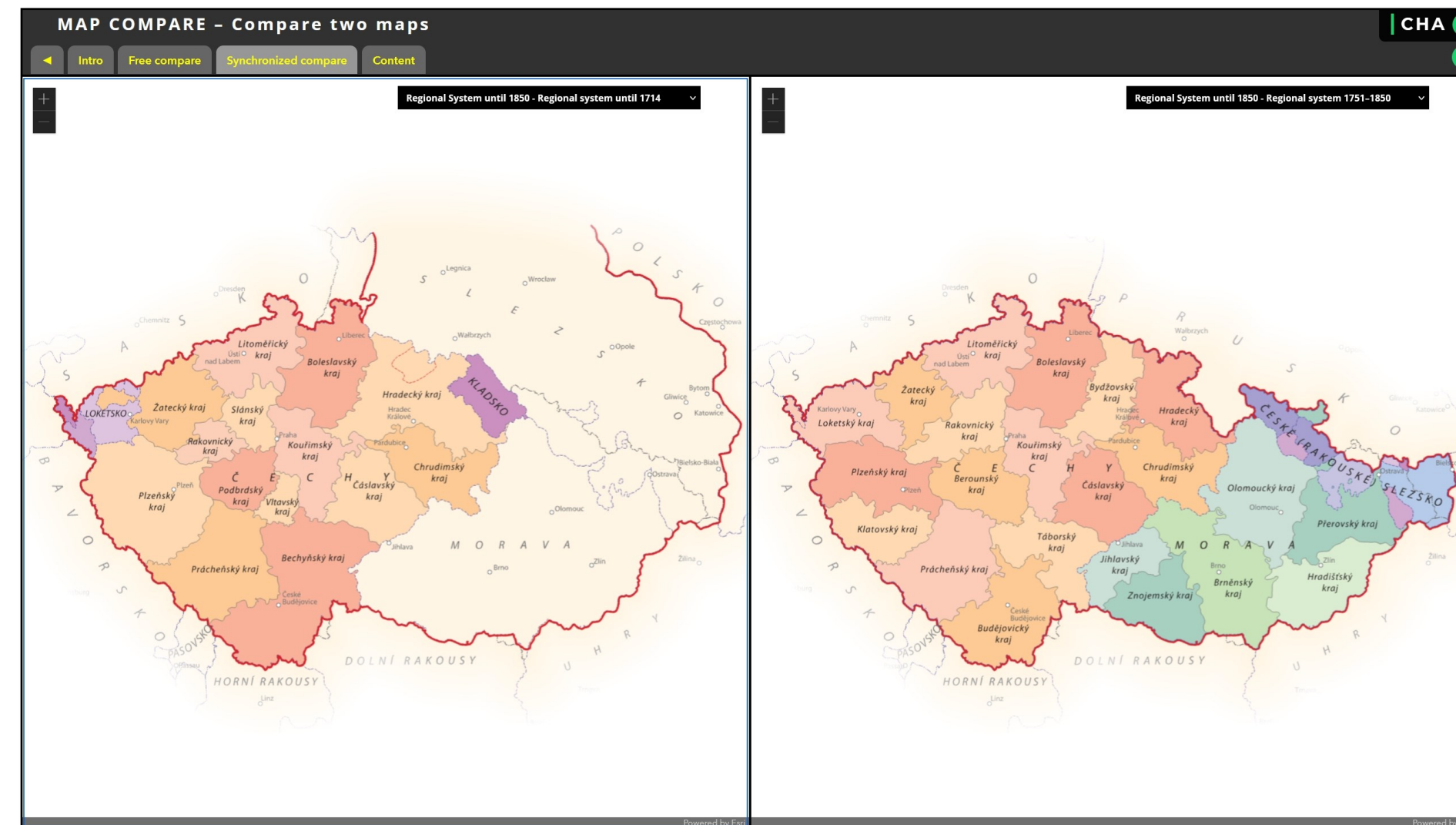
The map portal is not just a signpost to individual maps or topics. On the contrary, it is supplemented by a series of publicly accessible texts that allow the user to gain insight into the issues of historical cartography as a scientific field Moreover it links to other works of historical cartography, both printed and digital. The web portal is built on standard web technologies HTML, CSS, JavaScript and PHP.

In the future, it is planned to optimize and modify the portal for display on smaller monitors and mobile devices. The development of a mobile application is also being considered to facilitate its use, e.g. in teaching in secondary schools.

MAP COMPARE – Compare two maps

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