

Methodological Photoatlas

What is Atlassing?

Facts and Dates

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DRESDEN

2022

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1. Preface

The methodological photoatlas "What is Atlassing? Facts and Dates" is a derivative one based on the diverse photoatlases and two monographs of the author:

- Semiotische Evolution in der Kartographie und Atlassing. Dresden 2020;
- Quo vadis Europäische (theoretische) Kartographie und Karto/ Atlassemiotik? Dresden 2021 and also a presentation "Atlassing as a New Interdisciplinary Direction and Discipline" for the ICA Joint Commission Conference "Atlases in Time" in Madrid, 20-23 April 2022.

Based on selected facts this photoatlas reflects the development of atlassing as a new interdisciplinary semiotic-epistemological direction in the creation, analysis and collection of diverse thematic atlases or photoatlases (with cartographic and non-cartographic traditions).

The formation of a new interdisciplinary direction of atlassing with new semiotic-epistemological disciplines such as atlassemiotics and photo atlassemiotics, atlasgraphy and photo atlasgraphy, etc. brings new challenges of cartography or atlas cartography.

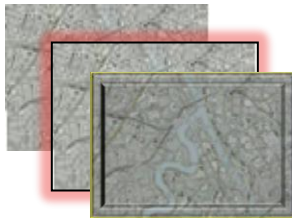
The 2020s will show how modern academic cartography responds to the new challenges of atlasgraphy and photoatlasgraphy.

2. Selected definitions to atlas and atlassing

What is an ATLAS?

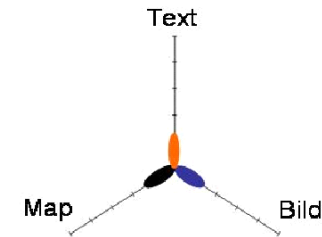
(Cartographic definition)

Atlas (after Denk 2001):
a goal- and purpose-oriented,
systematic collection of maps in book form or as a loose sequence of individual maps or as a electronic presentation on the screen.



(Semiotic definition)

Atlas (after Wolodtschenko 2012):
an analogue or electronic **knowledge model (knowledge product)** that is conceived, created, analyzed and portrayed **in semiotic coordinate system of three meta-variables text/image/map**.



2. Selected definitions to atlas and atlassing

What is atlassing?

Atlassing (with two letters s) is a new interdisciplinary direction in the creation and research of diverse atlases (with cartographic and non-cartographic traditions).
Atlassing as a trend has European cartosemiotic roots.

Atlasing (with one s) is the activity of creating and analyzing digital atlases on specific questions of integration of neuroanatomical images, gene expression data and other signals.

Photoatlassing – one of the components of atlassing, a new applied and epistemological direction in the study and creation of various photoatlases (with cartographic and non-cartographic traditions) based on their semiotic classification and in a semiotic coordinate system.

3. Selected facts to atlassing

Listing in chronological order

2006/2007: Two (pioneer) monographs to semiotic atlas analysis and portraying

2006-2008: Creation of ubiquitous atlases. (Crash course for students of the TU Dresden)

2012: Semiotic atlas classification/atlassing. (Paper), AutoCarto conference, Columbus, USA

2014/2015: New DGS Section “Öko- und Kartosemiotik”

2015-2022: Photoatlas collection (ca. 200 web photoatlases)

2016: Semiotics of photoatlases (Monograph by A.Wolodtschenko)

2017: DGS Section Umwelt- und Karto/Atlassemiotik (Huch/Schlichtmann/Wolodtschenko)

2019: Semiotic photoatlas analysis (with Survey Analysis via Visual Exploration)

2020: Semiotic evolution in cartography and atlassing (Monograph by A.Wolodtschenko)

2021: German-Canadian cybercartographic photoatlas projects

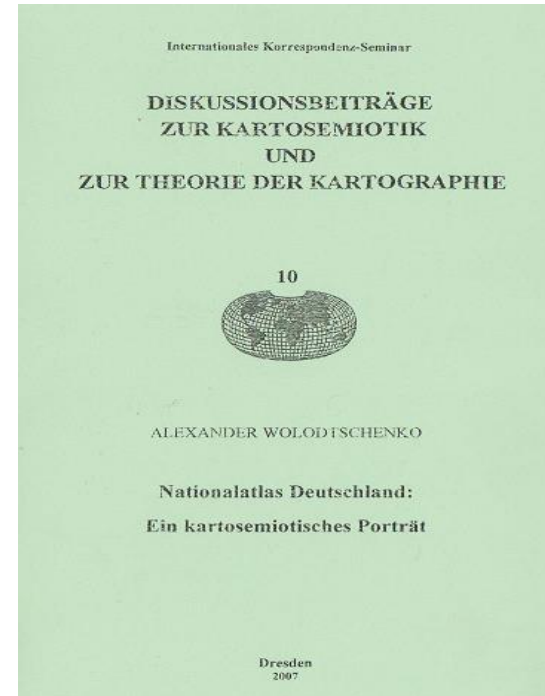
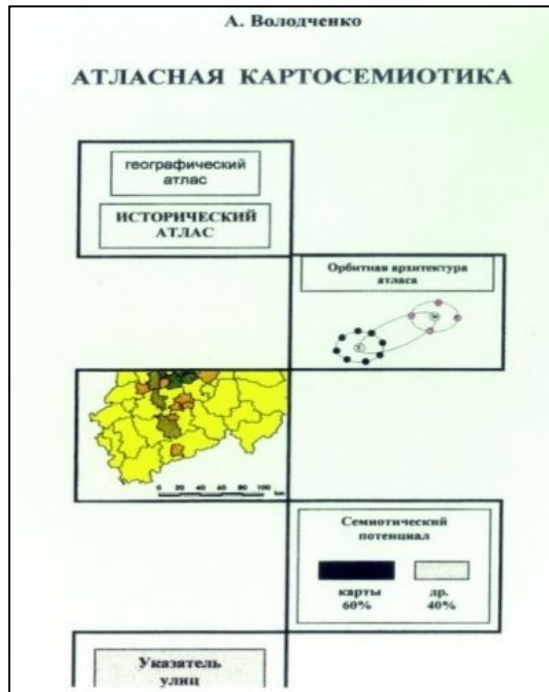
2021: Semiotic-epistemological meta-discipline: atlassing/photoatlassing (Structur models)

2021: Quo vadis Europäische (theoretische) Kartographie und Karto/Atlassemiotik?

(Monograph by A.Wolodtschenko)

2022: German-Canadian projects: Photoatlas series “Circle of All Nations”

3.1. Two pioneer monographs to semiotic atlas analysis



Selected monographs by the author (2006-2007) document the emergence of atlasemiiotic theory and the formation of new semiotic-epistemological disciplines.

1. Wolodtschenko, A.: Atlasnaia kartosemiotika. Dresden 2006.
2. Wolodtschenko, A.: Nationalatlas Deutschland: ein kartosemiotisches Porträt. Dresden 2007

3.2. From cartographic atlases to photoatlases

Crash course „Creation of ubiquitous atlases“ for students of the TU Dresden

Wie präsentiert man Bildatlanten am besten?



Studenten bei der Präsentation der Bildatlanten. Foto: A.W.

Ein kartosemiotisches Projekt für Studenten der Medieninformatik und Geographie

tasemiotischen Variablen (Text-Bild-Karte) zu demonstrieren.

Die acht dargestellten Themen der Bildatlanten sind in folgende drei Interessengruppen gegliedert: Tourismus (Bern, Budapest, Kroatien), Hobbyforschung (Sternhaufen, Stigmatische Dresden-Ge-

„Die Donaukönigin“ - 3 Tage Budapest -



Institut für Kartographie
Kartenredaktion
Dr.-Ing. Dr.Jur. Alexander Malochowenko
Evelyn Ströling

Stigmatisierte Gebiete?

Die Plattenbaugebiete in Dresden



Institut für Kartographie
LV Kartenredaktion
Denise Rost
Dresden, den 16.12.2009

In 2008, a pilot project "Photoatlas as a semiotic model" started at the Institute for Cartography of the TU Dresden for non-cartography students (geography and computer science).

3.2. From cartographic atlases to photoatlases

Crash course „Creation of ubiquitous atlases“ for students of the TU Dresden

Das Potenzial des Bildatlas

Erste Erfahrung mit dem neuen kartosemiotischen Projekt für Studenten der Informatik und Geographie

Im Rahmen der Lehrveranstaltung »Kartenredaktion« für Nichtkartographie-Studenten (Studenten der Fakultät Informatik und Geographie-Studenten) wurde im Wintersemester 2008/2009 ein Pilot-Projekt »Bildatlas als semiotisches Modell« vorgeschlagen und getestet. Ziel des Projektes war, erste methodische Erfahrungen mit neuen Elementen der kartosemiotischen Ausbildung für Nichtkartographie-Studenten zu gewinnen. Gerade die moderne atlasbezogene Erforschung charakterisiert eine Reihe von diesbezüglichen neuen Disziplinen wie Atlaskartosemitik, ökologische Kartosemitik, touristische Kartosemitik usw.



Präsentation der Bildatlanten.

Foto:Archiv Wolodtschenko

The student projects of ubiquitous story telling photoatlases for smartphones/tablets were presented and discussed on the seminars.

3.2. From cartographic atlases to photoatlases

Selected Student Ubiquitous Photoatlases (2008-2010)

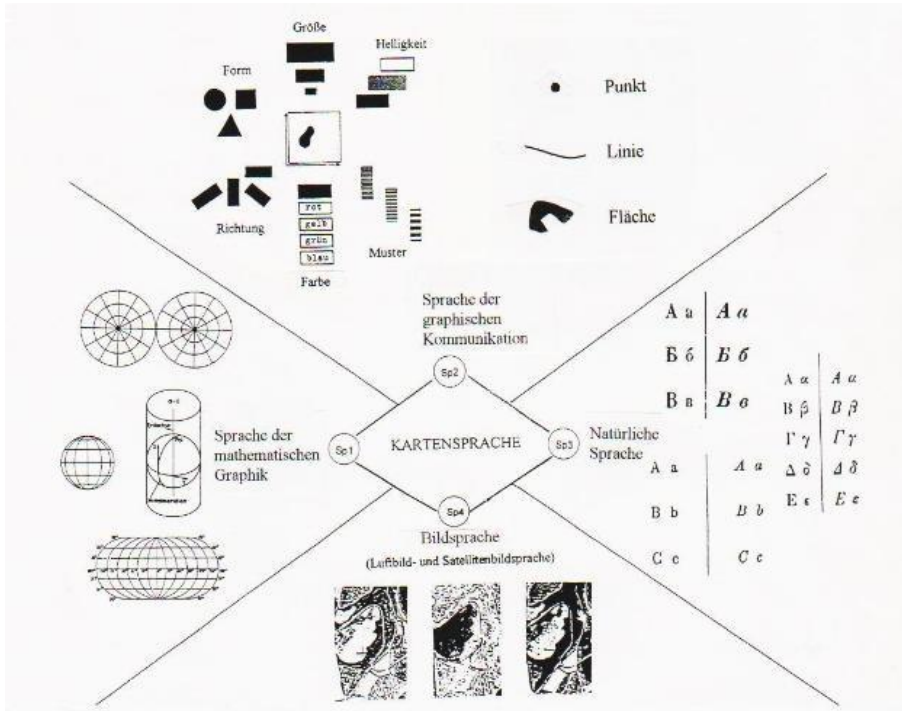


The student mono-, two-, three- and four-display photoatlases for smartphones/tablets demonstrate methodical photoatlas projects with display-related limits (potential) and creative possibilities.

3.2. From cartographic atlases to photoatlases

Semiotic models with meta-languages: map language and atlas language

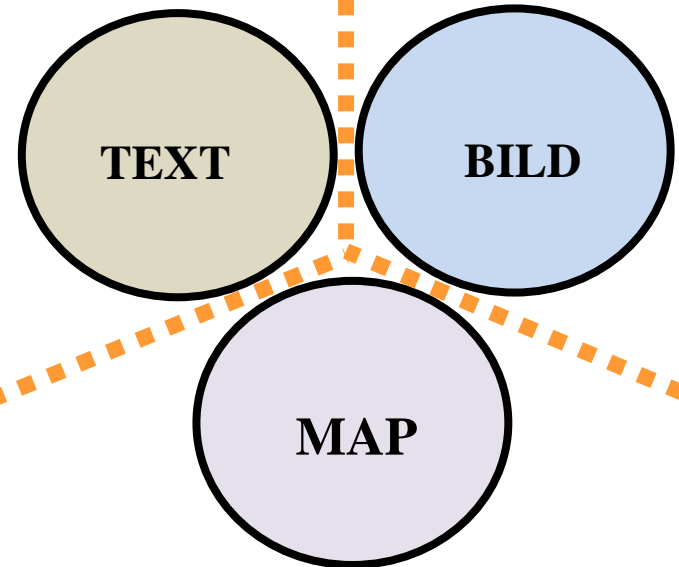
System of map language
(four sub-languages)



System of atlas language
(meta-language)

Verbal language

Image language



Map language

In order to convey or acquire map/atlas-related knowledge, students need knowledge of map language and atlas language. The atlas language as meta-language contains and combines text, image/Bild and map components.

3.2. From cartographic atlases to photoatlases

Selected student projects at the TU Dresden (2006-2013)



Prähistorische und frühgeschichtliche Karten

Thomas Forner
(2007)



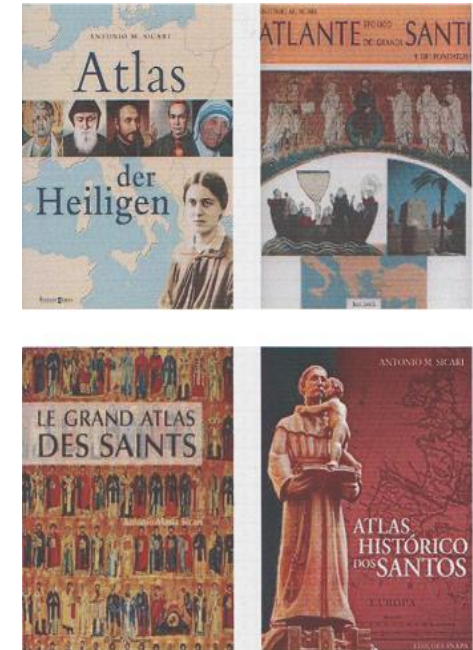
Doppelstädte Deutschlands

Peter Griebmann
(2007)



Doppelstädte Europas

Christine Preiwuß
(2007)



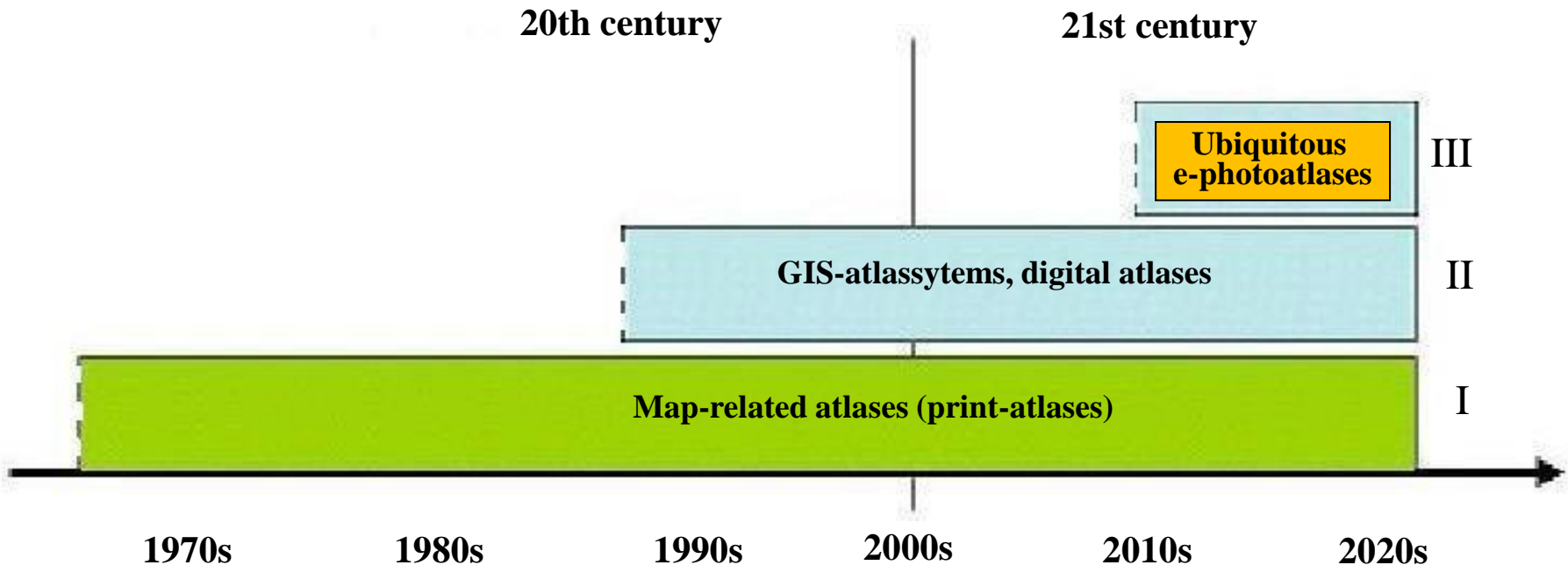
Struktur-semiotische Analyse des Atlas der Heiligen

Stefan Hautz (2012)

Selected undergraduate works were carried out at the Institute of Cartography at the Dresden University of Technology (2006-2013) and document the development of the semiotics of maps and atlases, as well as the creation of thematic photoatlases (ubiquitous atlases) and their use.

3.2. From cartographic atlases to photoatlases

Third generation of atlases: the ubiquitous e-photoatlases

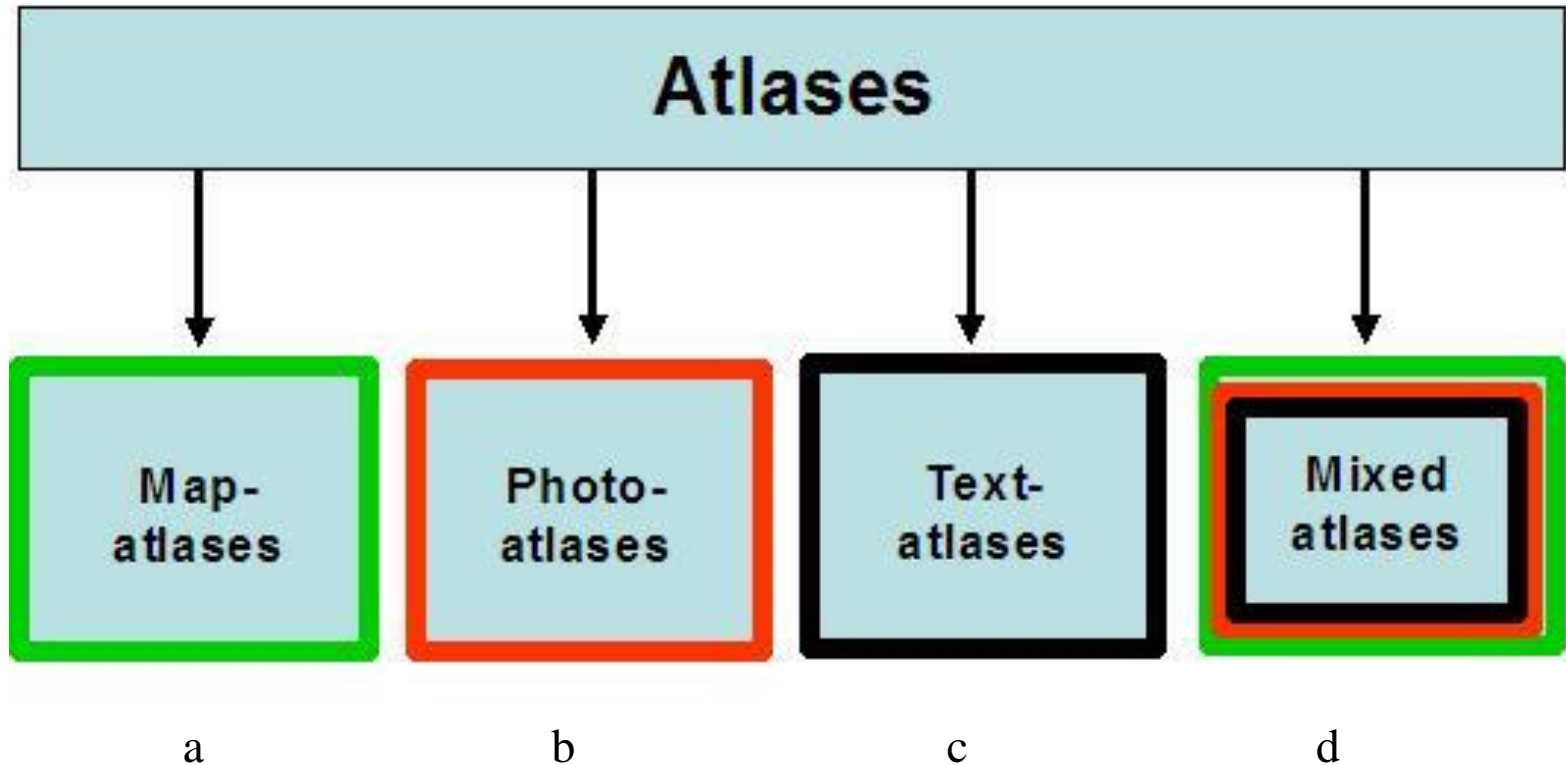


The ubiquitous e-photoatlases (for smart phones and tablets, etc.) belong to the **third generation** of atlases (Wolodtschenko 2012, 2020). The third generation of atlases brought **new terms and disciplines** into atlas-related practice and theory, such as: photoatlassing, atlasgraphy, semiotics of photoatlases, etc.

In the 21st century, modern society received a new generation of atlases - ubiquitous atlases (map atlases and photoatlases for smartphones and tablets) that complemented traditional print atlases and GIS atlas systems.

3.3. Semiotic atlas classification

AutoCarto Conference 2012, Columbus/USA

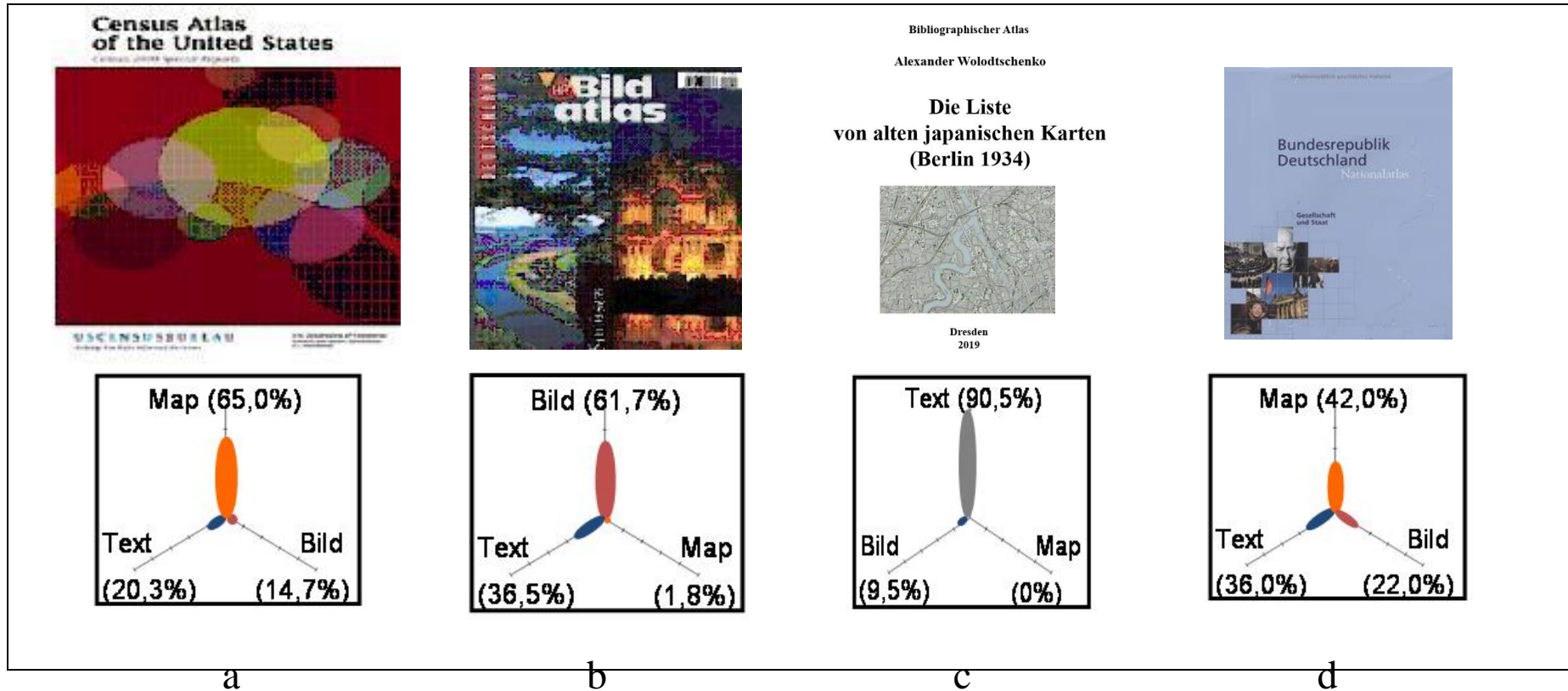


The classification of all atlases as semiotic models includes the following four main groups:

- a) Map atlases (variable MAP dominates with $> 50\%$)
- b) Text atlases containing text (the variable TEXT dominates with $> 50\%$)
- c) Photo atlases (the variable PHOTO/BILD dominates with $> 50\%$)
- d) Atlases with mixed content (without dominance of a variable with $> 50\%$).

3.3. Semiotic atlas classification

Semiotic atlas analysis, potential and classification

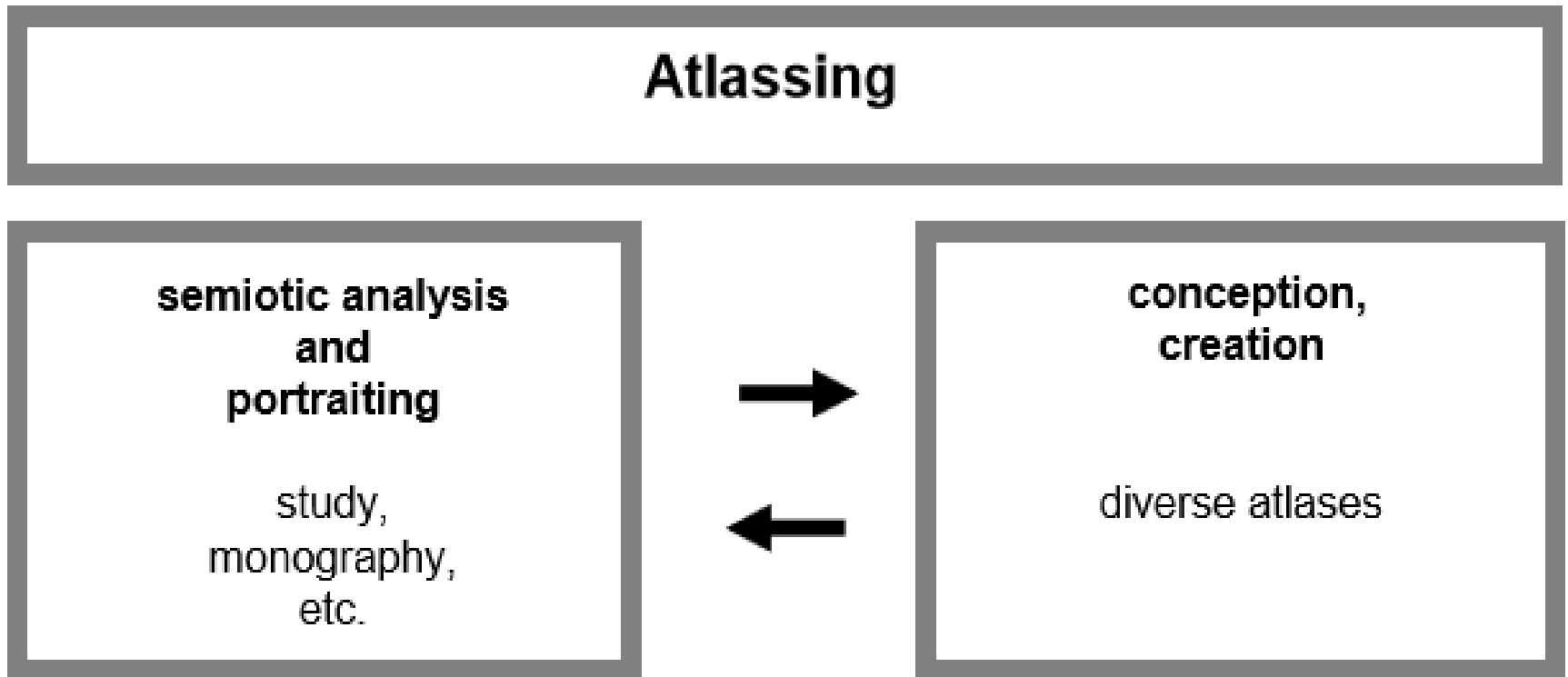


Four title pages of selected and semiotically classified atlases a)- a map atlas, b)- a picture atlas, c)- a text atlas and d)- a mixed atlas) demonstrate their semiotic-quantitative potential in the three-axis system model of metavariables.

The semiotic potential characterizes and distinguishes four groups of all atlases.

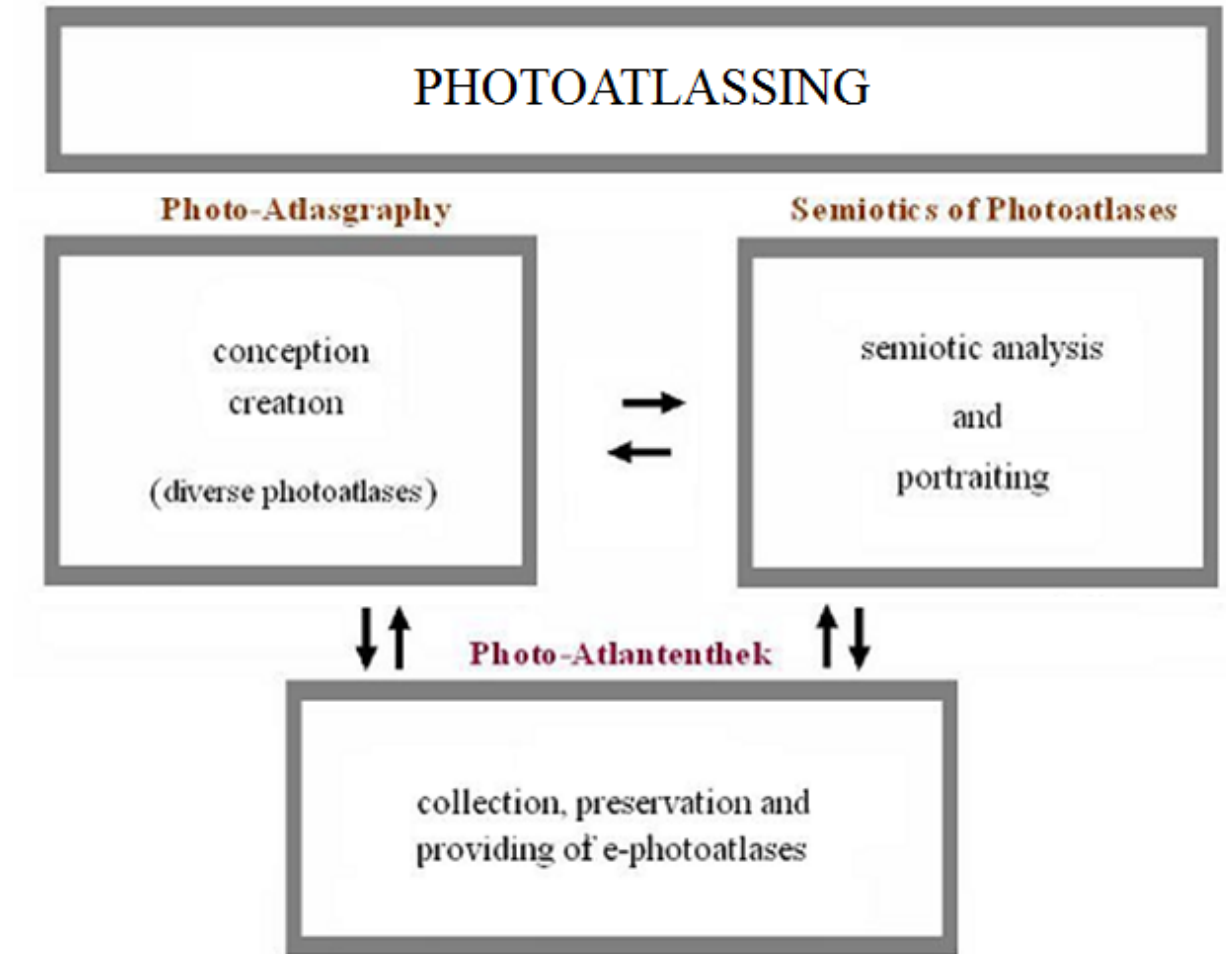
3.4. Structur model of atlassing and photoatlassing

AutoCarto Conference 2012, Columbus/USA



The first structural model of atlassing (after Wolodtschenko 2012, 2016) included semiotic analysis (atlassemiotik) and atlasgraphy (atlascreation) and was proposed at the AutoCarto conference 2012, Columbus/USA.

3.4. Struktur model of atlassing and photoatlassing



The derivative structural model of photoatlassing (after Wolodtschenko 2021) included semiotic analysis of photoatlases, photo atlasgraphy and photo atlantenthek (collection).

3.5. New driving forces for carto/atlassemiotics Section “Eco- and Cartosemiotics” (2015)

DGS e.V.

Deutsche Gesellschaft für Semiotik

Angegliedert der International Association for Semiotic Studies (IAS)



Umwelt- und Karto-/Atlas-Semiotik

The Section “Eco- and Cartosemiotics” was formed 2015 and renamed to “Environment- and Carto/Atlassemiotics” in 2017.

3.5. New driving forces for carto/atlassemiotics

Section “Environmental- and Carto/Atlassemiotics” (2017)



Co-chairs of section: Huch M., Schlichtmann H. (2017-2020) and Wolodtschenko A.

The section "Environmental and Carto/Atlassemiotics" is a combined section of the German Society for Semiotics, which combines environmental, map and atlas semiotics and thus aiming for a more applied and interdisciplinary orientation.

The section is headed by Monika Huch, Hansgeorg Schlichtmann (2017-2020) and Alexander Wolodtschenko (<http://www.semiotik.eu/Oeko-und-Kartosemiotik>).

3.6. Selected photoatlas collections (Projects 2015-2022)



A collection of about 170 thematic photoatlases (80% of them are storytelling ones) is available on the “Karto- und Atlas Semiotik” website.

<https://atlas-semiotics.jimdofree.com/bild-atlantotheek/>



A collection of about 25 photoatlases is available on the Monika Huch's website:

<http://www.geokultur-erleben.de/buecher.html>

The photoatlas collection is supported by the TUD Institute of Cartography (approx. 100 image atlases stored on the computer center server) and Spatial Information Systems Laboratories of the University of California, San Diego (approx. 100 photoatlases).

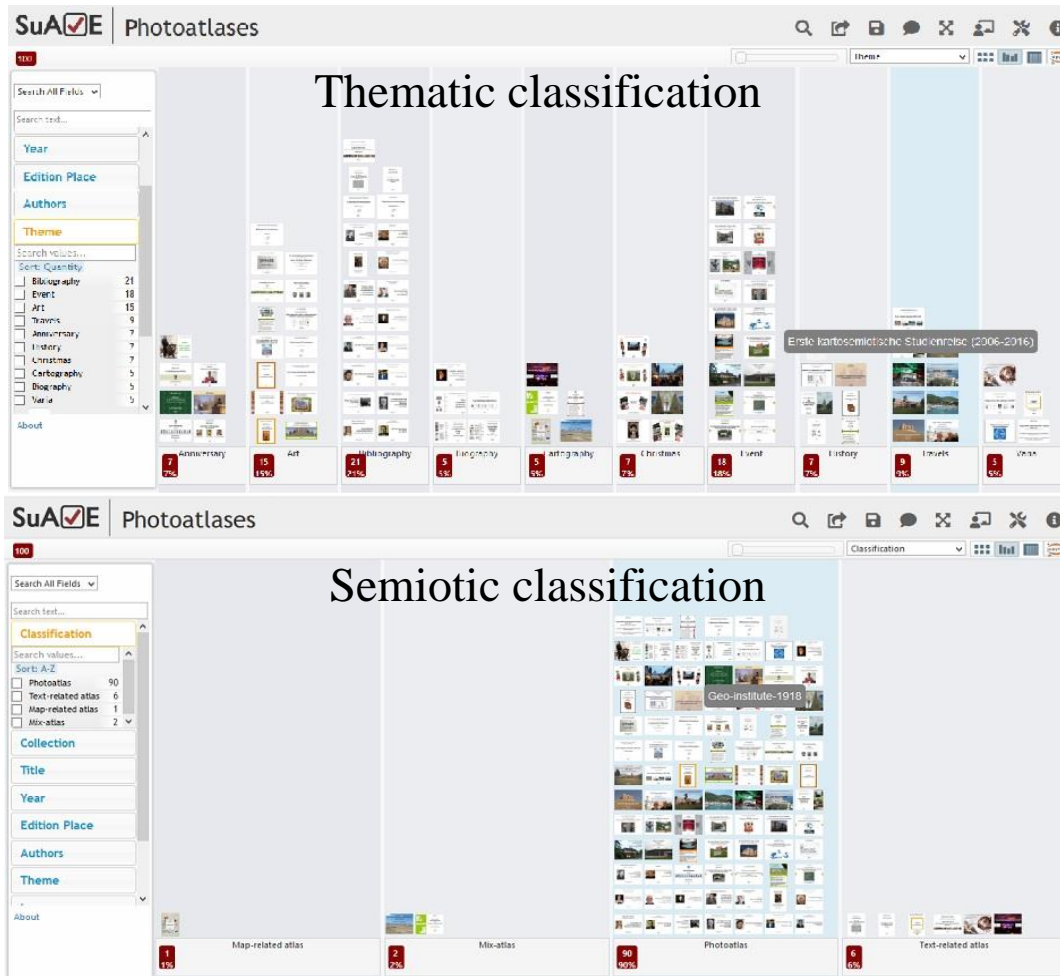
3.6. Selected photoatlas collections (Projects 2015-2022)

Thematic focus: story telling photoatlases

| Event-atlases | Bibliographic atlases | Biographic atlases | Environment-atlases | Historical atlases | Anniversary-atlases | Christmas-atlases |
|---------------|-----------------------|--------------------|---------------------|--------------------|---------------------|-------------------|
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About 200 thematic photoatlases can be seen on the web sites of authors and Monika Huch. Of these, 80-85% are storytelling photoatlases with a dominance of event themes. These storytelling photoatlases form a thematic core of the collection.

3.7. Semiotic atlas analysis with SuAVE (2019)

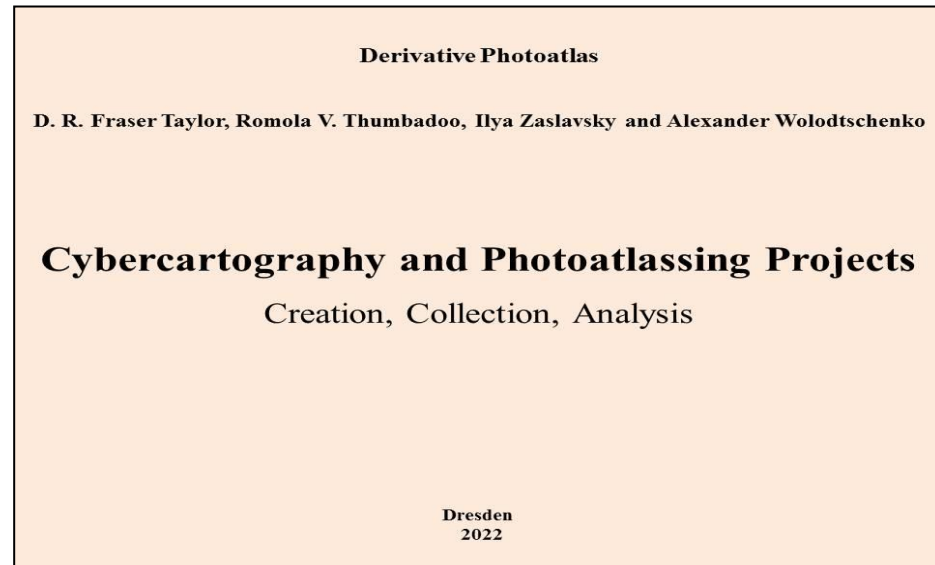
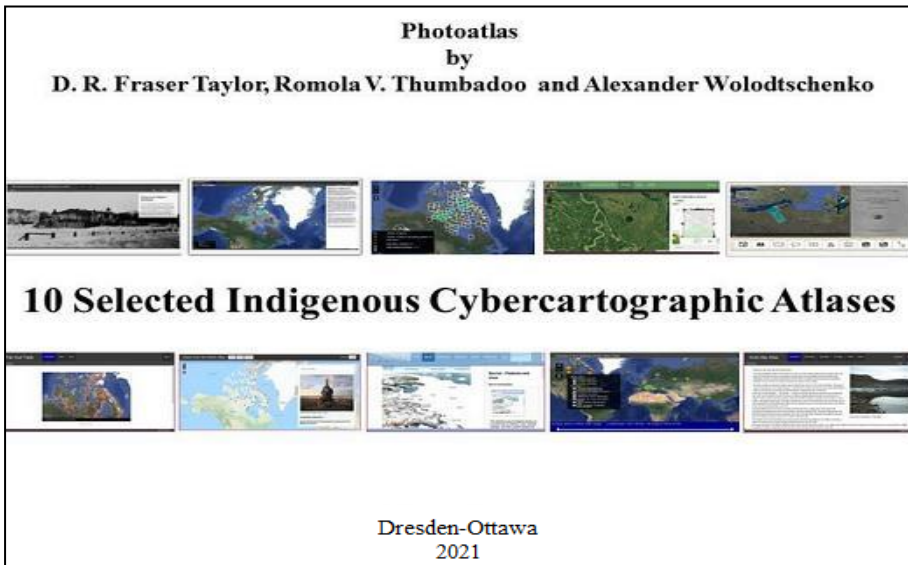


SuAVE (Survey Analysis via Visual Exploration, <http://suave.sdsc.edu/>) is a new data science platform for visual, statistical, and cartographic analysis. It has been used for semiotic analysis, annotation, and sharing of thematic photoatlases and their collections.

100 photatlases (the ubiquitous mini-atlases with 30-35 slides, 10-20 MB for smart phones and tablets) have been loaded in SuAVE, available online.

3.8. From cybercartography to photoatlassing

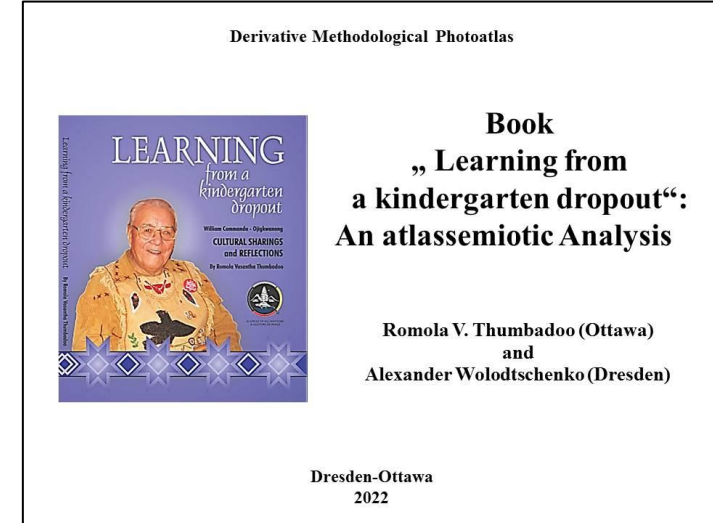
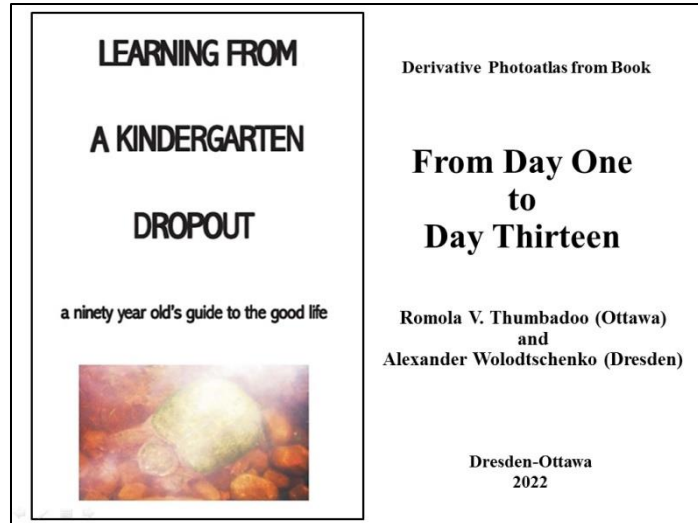
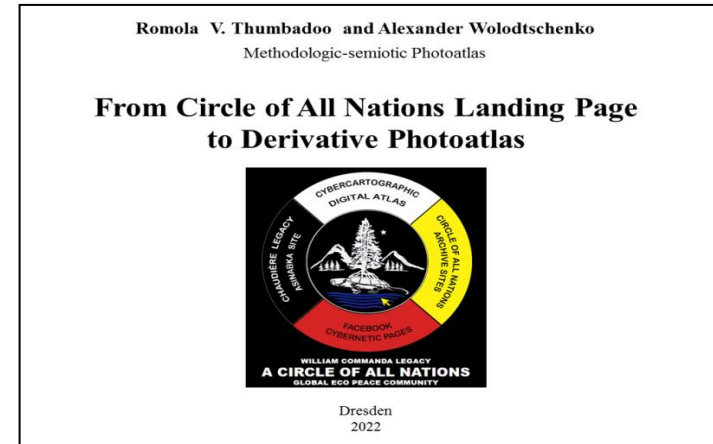
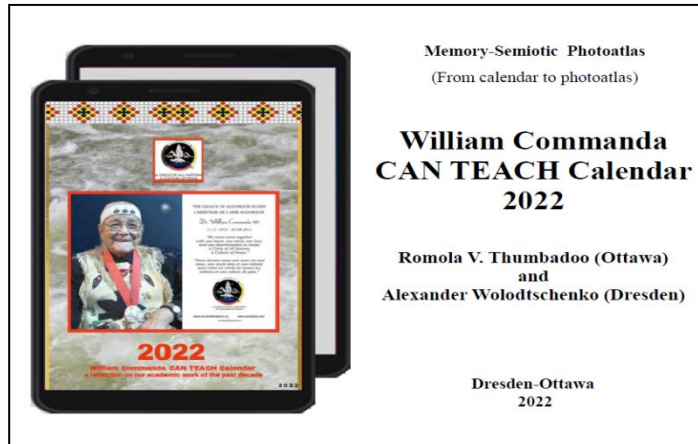
Two selected cybercartographic photoatlas projects (2021-2022)



These photoatlases reflect a synthesis of cybercartography and photoatlasgraphy (according to Wolodtschenko 2021) and characterizes a new phase of multidisciplinary cooperation in practice and methodology. The author of cybercartography concept is prof. D. R. Fraser Taylor, founder and director of Geomatics and Cartographic Research Centre (GCRC), Department of Geography and Environmental Studies, Carleton University, Canada.

The new concept of synthesis of cybercartography and photoatlasgraphy continued the process of semiotic evolution from cartography to atlasography, to semiotic-epistemological science.

3.9. German-Canadian project: Photoatlas series “Circle of All Nations” (2022)



Here are screenshots of start pages of four derivative photoatlases series “Circle of All Nations” (2022). The projects aim to create a storytelling, methodical and commemorative photoatlas series dedicated to Indigenous Elder William Commanda (1913-2011).

3.9. German-Canadian project: Photoatlas series “Circle of All Nations” (2022)

Collaborators

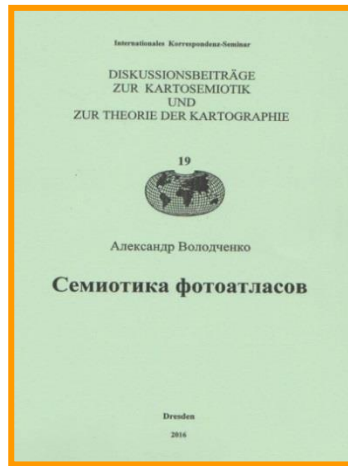
Romola V. Thumbadoo, PhD Geography,
SSHRC Postdoctoral Research Fellow
CEO and Coordinator, Circle of All Nations,
Legacy Work of Indigenous Elder William Commanda, OC, PhD
www.circleofallnations.ca; Romola@circleofallnations.ca
Executive Assistant to The Director, Dr. D. R. Fraser Taylor
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Dr. Dr.h.c. Alexander Wolodtschenko
Member of Scientific Advisory Board of the German Society
for Semiotics (DGS)
Co-chairman, Section "Umwelt- und Karto/Atlassemiotik"(DGS)
<http://www.semiotik.eu/Oeko-und-Kartosemiotik>
Co-editor: DKTK, Meta-carto-semiotics
<http://ojs.meta-carto-semiotics.org>
ERASMUS-Docent of the TU Dresden (since 2006)
Email: alexander.wolodtschenko@mailbox.tu-dresden.de

3.10. Semiotisation and atlassing in the 21st century

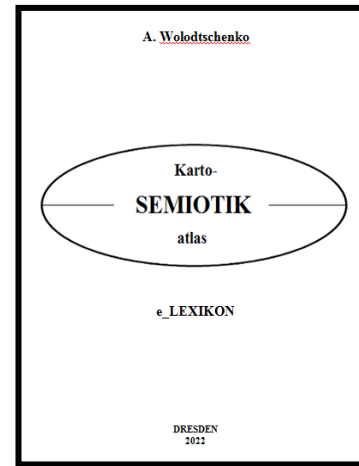
Selected monographs to carto-atlassemiotic methodology



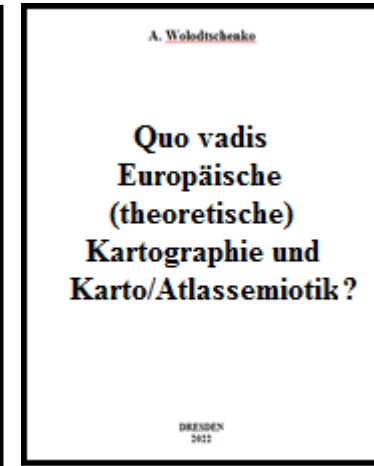
2016



2020



2021



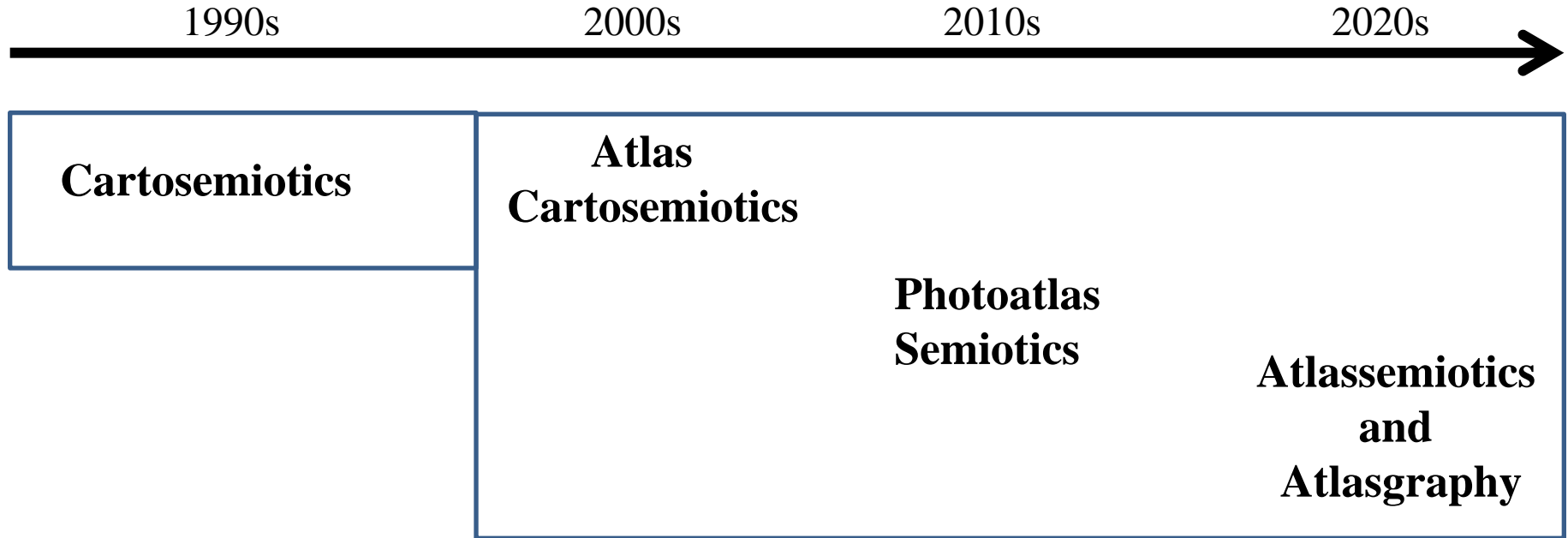
2021

In the periode 2016-2021 four selected monographs to carto-atlassemiotic methodology were published:

1. Wolodtschenko, A.: Semiotik der Bildatlanten. Dresden 2016
2. Wolodtschenko, A.: Semiotische Evolution in der Kartographie und Atlassing. Dresden 2020
3. Wolodtschenko, A.: Karto-Atlassemiotik. Lexikon. Dresden 2021
4. Wolodtschenko, A.: Quo vadis Europäische (theoretische) Kartographie und Karto/Atlassemiotik? Dresden 2021

3.10. Semiotisation and atlassing in the 21st century

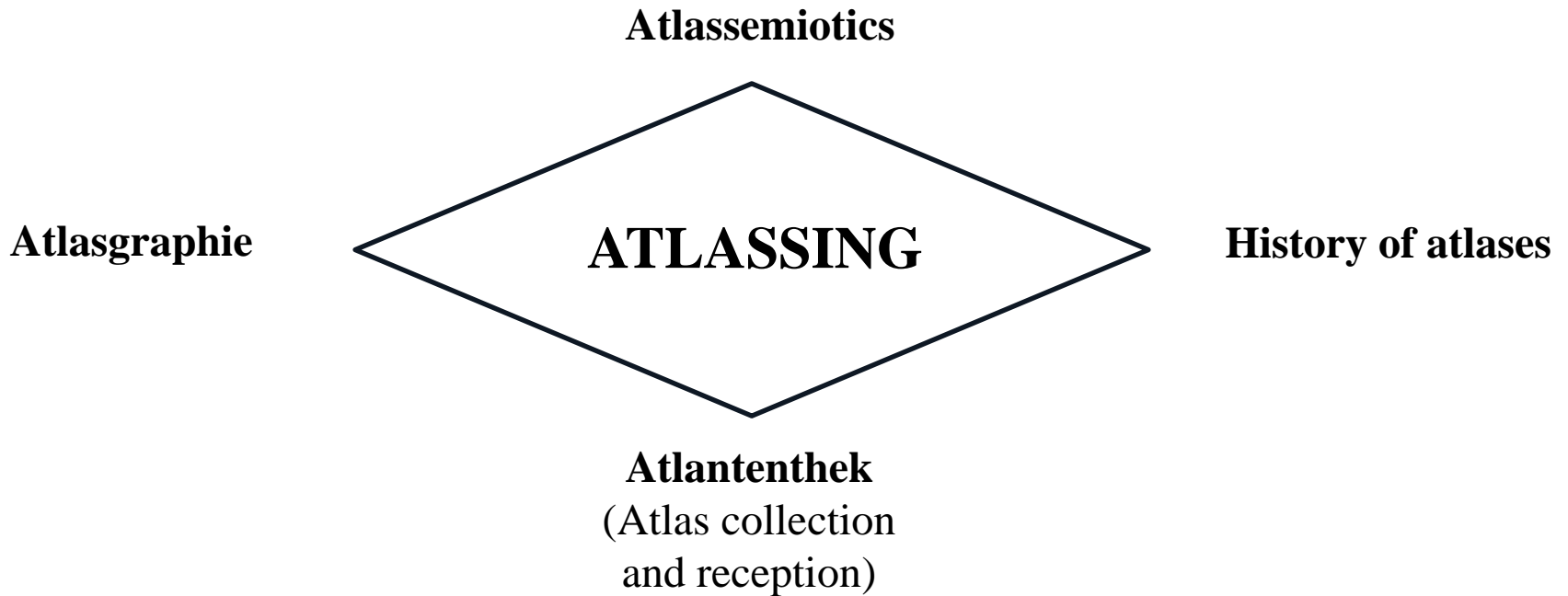
Evolution process: From cartosemiotics to atlassemiotics



The 20th century marks the beginning of the digital evolution (digitization) in cartography. The 21st century has highlighted the emergence of atlassing (photoatlassing) and the semiotic evolution in cartography and cartosemiotics (development of new semiotic-epistemological disciplines).

3.10. Semiotisation and atlassing in the 21st century

Structur model of atlassing as semiotic-epistemological meta-discipline



The structural model of atlassing as a new semiotic-oriented and epistemological meta-discipline is based on four sections or parts: atlasgraphy, atlassemiotics, atlashistory and atlantenthek (atlas library). The semiotic-epistemological development of carto/atlasgraphy is continued from mapping to atlassing.

4. References and imprint

Slides 7, 10 -15, 26: photo archive of A. Wolodtschenko

Slide 8: archive Dresdener Universitätsjournal, 3/2009

Slide 9: archive Dresdener Universitätsjournal, 2/2010

Slides 18, 19: photo archive of German Society for Semiotics

Slide 22: from <http://suave.sdsc.edu>

Slides 21, 23: from <https://atlas-semiotics.jimdofree.com/bild-atlantothek/>

Slide 24: photo archives of R.V. Thumbadoo

Slide 25: photo archives of R.V. Thumbadoo and A. Wolodtschenko

Selected web-addresses:

https://gcrc.carleton.ca/index.html?module=module.gcrcatlas_atlases

<https://atlas-semiotics.jimdo.com/>

<https://www.facebook.com/circleofallnations>; www.circleofallnations.ca

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Dresden 2022