



# Cartography M.Sc.

The usability of satirical maps as an educational aid in history class



[1]

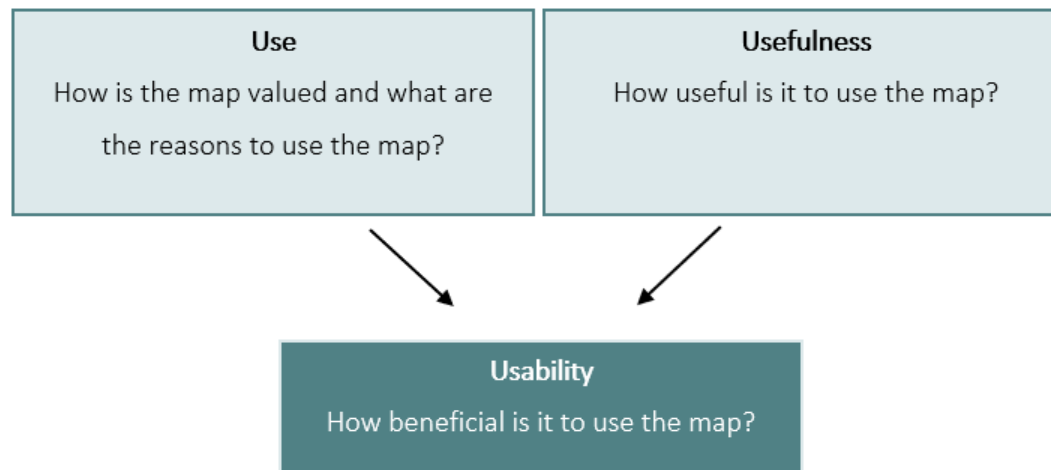
*“one image says more than a thousand words”*

# Objective

*Discover the **use** and **usefulness** of satirical maps as an **educational aid** in **secondary school history class** and to give recommendations for its **potential use***



Usability is the “extent to which a system, product or service can be used by specified users to achieve specified goals with effectiveness, efficiency and satisfaction in a specified context of use” (ISO, 2018, p. vi).



# Research Questions

1. Summarize what is known about satirical maps  
What is known about the usability of satirical maps?
2. Summarize what is known about learning objectives  
What is known about education objectives?



# Research Questions

3. Explore the **use** of both satirical and plain maps  
How do students and teachers value the use of a satirical map in contrast to a plain map?
4. Explore the **usefulness** of both satirical and plain maps  
How effective and efficient is working with a satirical map in contrast to a plain map?
5. Identify the **usability** of satirical maps as an educational aid  
What conclusion can be drawn concerning the usability of a satirical map in contrast to a plain map?



# Hypothesis

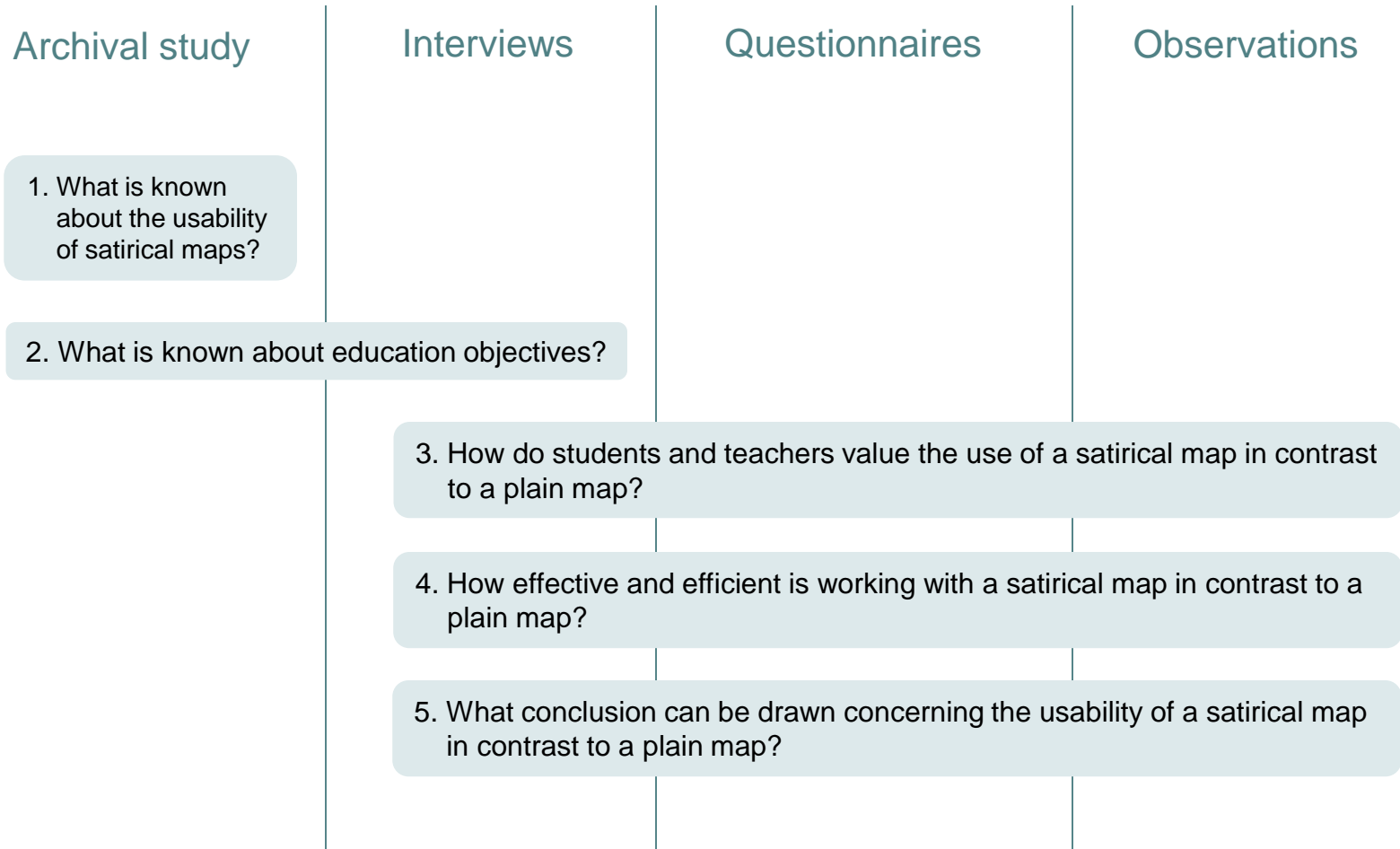
Satirical maps possess characteristics that are contributory in reaching history class objectives, which makes the satirical map a beneficial medium in history class.



# Methodology

- Experimental / Comparative Design
- Archival study
- Interviews
- Class Experiment (incl. Questionnaire)
- Observations in class



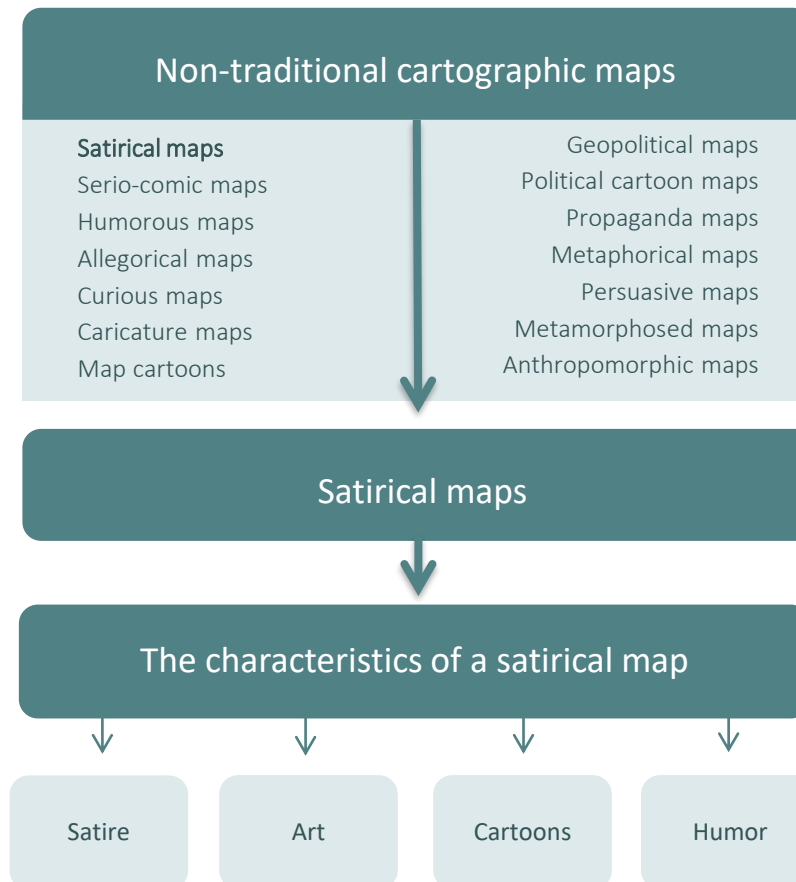


# Findings

1



What is known about the usability of satirical maps?





# 2

What is known about education objectives?



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Zoek

## GESCHIEDENIS VWO

### SYLLABUS CENTRAAL EXAMEN 2019, NADER VASTGESTELD

Versie 3, juni 2018

Centraal examen 10

GESCHIEDENIS EN STAATSRICHTING VMBO | Syllabus centraal examen 2019  
Versie 2, juli 2017

#### 3b. Specificatie van de globale eindtermen voor het CE

##### GS/K/3 Leervaardigheden in het vak geschiedenis en staatsinrichting

Omschrijvingen	Specificaties
<b>De kandidaat beheerst een aantal strategische vaardigheden die bijdragen tot de ontwikkeling van het eigen leervermogen.</b>	
<b>De kandidaat kan</b>	<b>In dat verband kan hij/zij</b>
1. verschillende typen historische vragen herkennen en zo zelfstandig mogelijk formuleren	onderscheid maken in beschrijvende, verklarende en waarderende vragen
2. bij gegeven of zelf geformuleerde historische vragen informatie verwerven	<ul style="list-style-type: none"> <li>- bepalen welke (soort) historische informatie nodig is</li> <li>- geschikte informatiebronnen inventariseren</li> <li>- bronnen en bronfragmenten selecteren, letvend op bruikbaarheid, betrouwbaarheid en representativiteit</li> <li>- gebruikmaken van verschillende typen historisch bronmateriaal, mondeling, schriftelijk, audiovisueel</li> </ul>
3. verworven of aangereikte informatie verwerken	<ul style="list-style-type: none"> <li>- gegevens ordenen en zo nodig bewerken</li> <li>- gegevens beoordelen op bruikbaarheid, betrouwbaarheid en representativiteit - gegevens analyseren en een eigen standpunt weergeven en toelichten</li> </ul>
4. principes en procedures die kenmerkend zijn voor de benaderingswijzen van het vak geschiedenis en staatsinrichting toepassen	<ul style="list-style-type: none"> <li>- ordening aanbrengen in historische gebeurtenissen, verschijnselen, ontwikkelingen en personen:</li> <li>- historische gebeurtenissen, verschijnselen, ontwikkelingen en personen plaatsen in historische perioden en in maatschappijtypen</li> <li>- verschijnselen uit verschillende perioden en samenlevingen vergelijken</li> <li>- in historische processen aspecten van continuïteit en verandering herkennen</li> <li>- veranderingen onderscheiden naar de snelheid waarmee deze plaatsvinden, van schoksgewijs tot geleidelijk</li> <li>- op basis van gegeven werkmateriaal verklaringen geven voor historische gebeurtenissen, verschijnselen en ontwikkelingen:</li> <li>- de aanleiding herkennen als de meest directe oorzaak</li> <li>- herkennen hoe oorzaken van verschillende aard historische processen beïnvloeden - directe en indirecte oorzaken onderscheiden</li> <li>- onderscheid maken tussen oorzaken van meer en minder belang</li> <li>- gevolgen die op korte termijn spelen, onderscheiden van gevolgen op lange termijn</li> <li>- zich op basis van historische gegevens een beeld vormen van historische gebeurtenissen, verschijnselen, ontwikkelingen en personen:</li> <li>- rekening houdend met de standplaatsgebondenheid van de bronnen</li> <li>- rekening houdend met de eigen standplaatsgebondenheid</li> <li>- vaststellen waardoor de standplaatsgebondenheid bepaald werd/ wordt</li> <li>- een eigen standpunt over historische gebeurtenissen, verschijnselen en ontwikkelingen weergeven en toelichten:</li> <li>- zich verplaatsen in opvattingen, waarden en motieven van mensen in het verleden, er rekening mee houdend dat zij niet over dezelfde kennis konden beschikken als wij nu</li> <li>- opvattingen, waarden en motieven, waardoor mensen in het verleden werden geleid, vergelijken met die van zichzelf en tijdgenoten</li> </ul>

Syllabus geschiedenis en staatsinrichting GI/TL

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## LehrplanPLUS

Gewähltes Fach: **Geschichte/Sozialkunde (FOS/BOS)**



1 2 3 4 5 6 7 8 9

Berufsoberschule x Jahrgangsstufe 12 x Geschichte/S

Fachlehrpläne x

Grundschule

Mittelschule

Förderschule

Realschule

Gymnasium

Wirtschaftsschule

Fachoberschule

**Berufsoberschule**

> Bildungs- und  
Erziehungsauftrag

> Übergreifende  
Bildungs- und  
Erziehungsziele

> Fachprofile

> Grundlegende  
Kompetenzen  
(Jahrgangsstufenprofile)

### Geschichte/Sozialkunde 12

[Alle aufklappen](#)

gültig ab Schuljahr 2018/19

Die Lernbereiche sind in Pflicht- und Wahlmodule aufgeteilt.  
„optional“ gekennzeichnet.

#### ▼ GSk12 Lernbereich 1: Methodenkompetenzen

Die Methodenkompetenzen werden im Zusammenhang mit den anderen Lernbereichen erworben und hierzu von der jeweiligen Lehrkraft in eigenem pädagogisch-didaktischen Ermessen in alle anderen Lernbereiche integriert.

#### Kompetenzerwartungen

Die Schülerinnen und Schüler ...

#### ▼ GSk12 Lernbereich 1: Methodenkompetenzen

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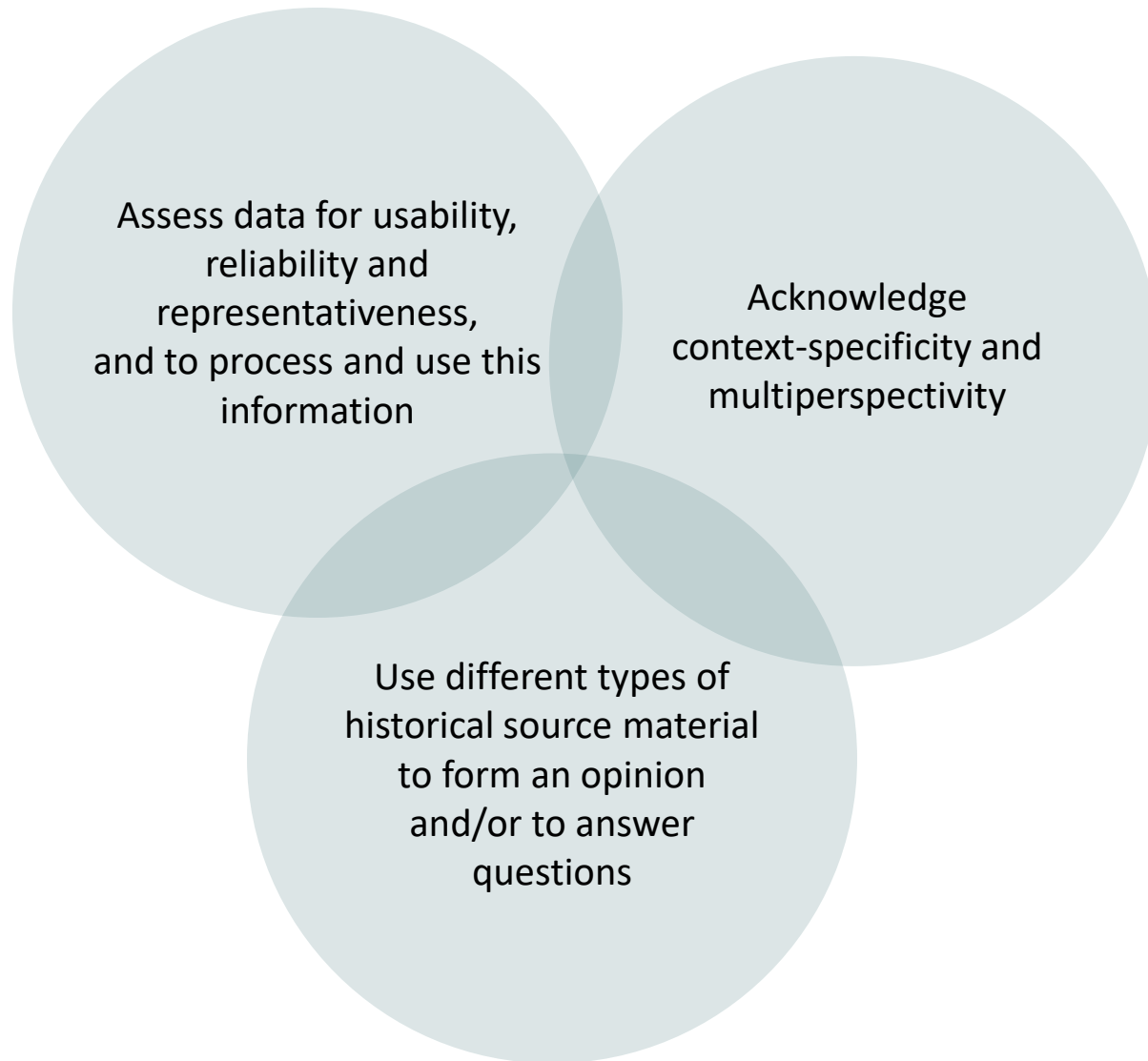
#### Kompetenzerwartungen

Die Schülerinnen und Schüler ...

- erfassen komplexe z. T. wissenschaftliche Textquellen eigenständig, analysieren und interpretieren diese sicher und beurteilen sie unter historischen und gesellschaftspolitischen Gesichtspunkten.
- nutzen ihre Kenntnisse der Analyse visueller Quellen (z. B. Bilder, Fotografien, Schaubilder, Statistiken und Wahlplakate), um Manipulationsversuche zu durchschauen und diesen argumentativ zu begegnen.
- beurteilen die Aussage von politischen und historischen Karikaturen und vertreten dazu begründet eine eigene Position.
- analysieren zielgerichtet Karten zu historischen und aktuellen Themen, um zentrale aktuelle und historische Probleme in schlüssigen Argumentationen zu erörtern und selbst Stellung zu beziehen.
- beurteilen Film-, Ton- oder Nachrichtenquellen bezüglich deren Intentionen, Glaubwürdigkeit und Informationsgehalt und beziehen diese Erkenntnisse in ihren Prozess der Meinungsbildung mit ein.
- beurteilen die Bedeutung historischer und aktueller politischer Reden und Aussagen bezüglich deren Auswirkung auf die eigene Lebenswelt und sind in der Lage, selbst an politischen Diskussionen aktiv teilzunehmen.
- erfassen Informationen aus den Medien (z. B. Fachliteratur, Lexika, Internet) zu historischen und gesellschaftspolitischen Fragen und bewerten diese sicher hinsichtlich deren Intention und Gehalt.

[6]





# 3

How do **students and teachers** value the **use** of a satirical map in contrast to a plain map?

# 4

How **effective and efficient** is working with a satirical map in contrast to a plain map?

# Students

PARTICIPANTS					
Class	N	Age	Male	Female	Other
VWO5 (1)	18	17	10	8	0
VWO5 (2)	23	17	12	11	0
BOS 11D	22	21	11	10	1
BOS 11C	16	21	6	10	0
BOS 11B	12	21	7	5	0
Total	91	20	46	44	1

☐ ☐ ☐ ☐ ☐

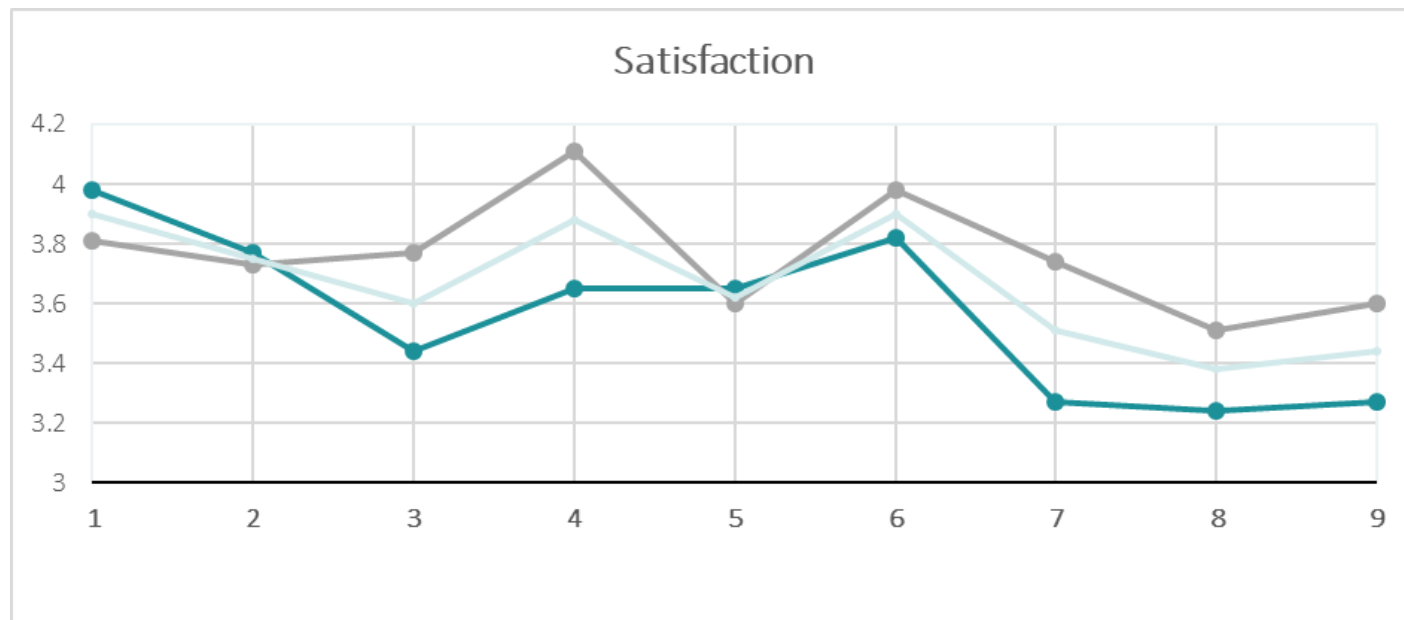


### Statements about the map (not considering the textfields)

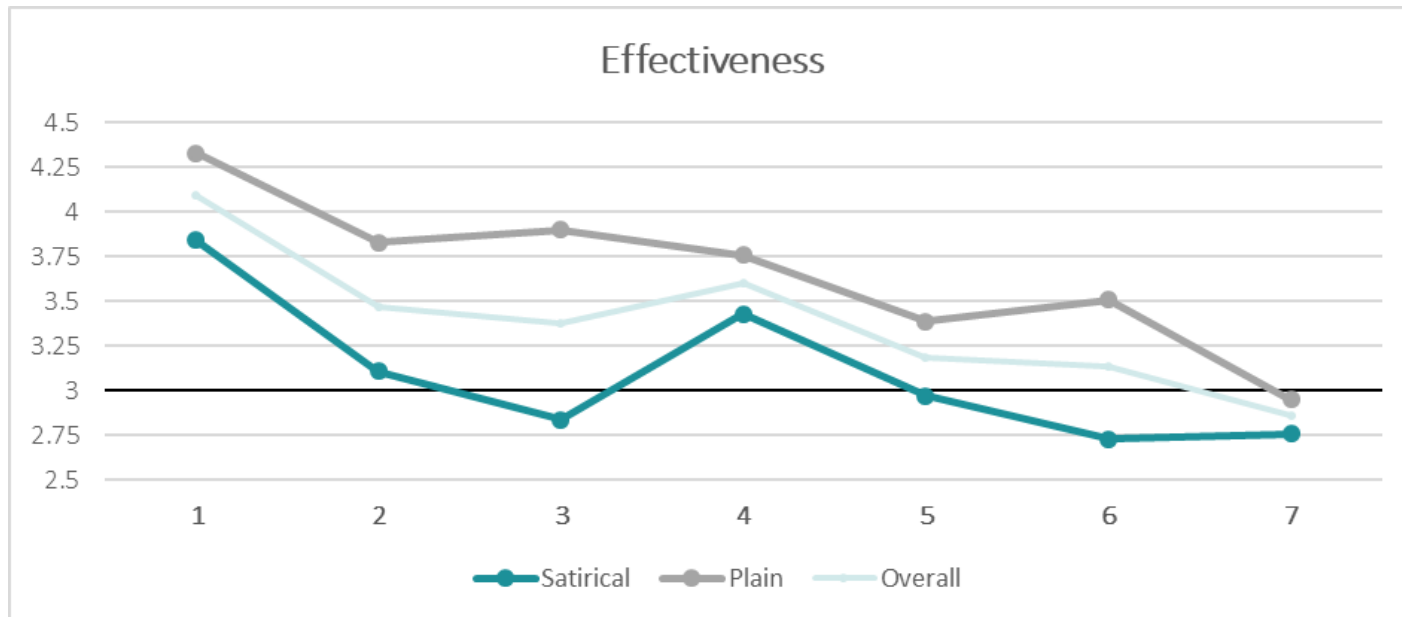
1. The map is interesting
2. The map makes learning history more entertaining
3. I understand the map
4. The map is humorous
5. The added text fields are needed to understand the map
6. I often use a similar map in order to learn history

<i>fully disagree</i>	<i>disagree</i>	<i>neutral</i>	<i>agree</i>	<i>fully agree</i>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- ▶ 1. The map is interesting
- ▶ 2. The map makes learning history more entertaining
- ▶ 3. I would like to see a similar map more often
- ▶ 4. I find this map useful for studying about WW1
- ▶ 5. The map does not contain too much information
- ▶ 6. I would recommend students learning about WW1 to look at this map
- ▶ 7. I would like to see a similar map more often (than is now the case) in history class
- ▶ 8. I would like to see the map again
- ▶ 9. The map did not contain too much information



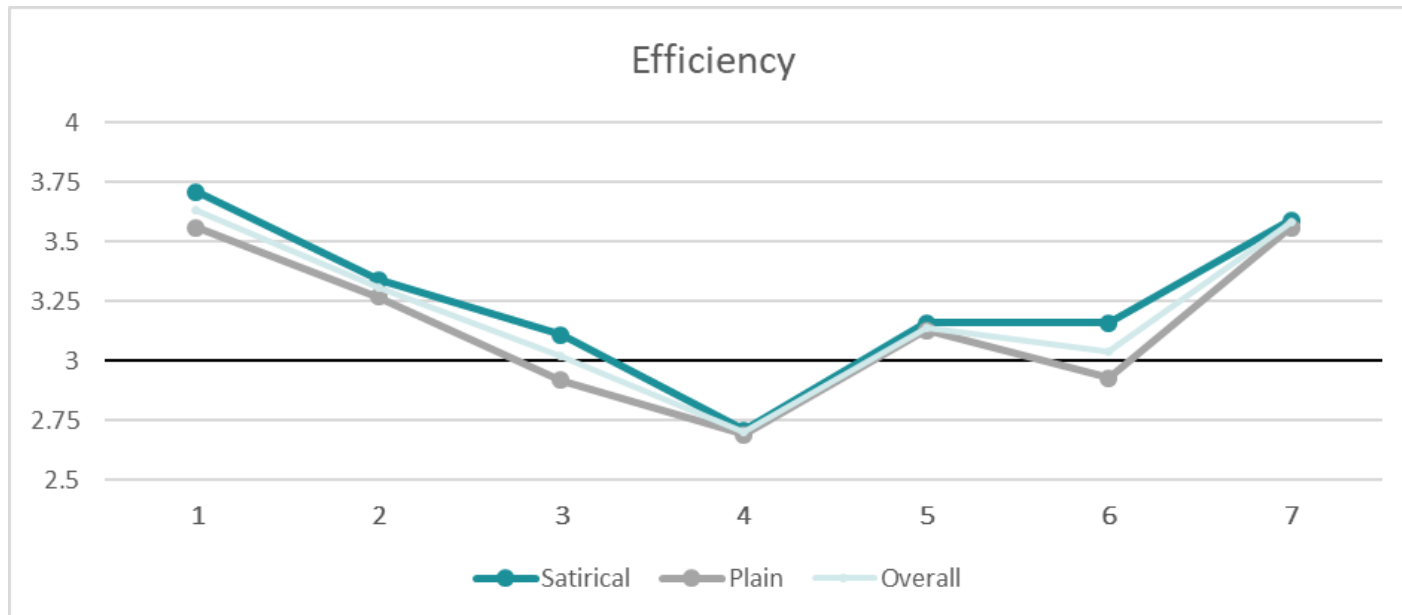
- ▶ 1. I understand the map
- ▶ 2. The map helps me to remember the historical facts
- ▶ 3. The colours of the map help me to remember the historical facts
- ▶ 4. I still remember how the map looked like
- ▶ 5. The map has helped me to remember the historical facts
- ▶ 6. The colours of the map have helped me to remember the historical facts
- ▶ 7. I know more about the WW1 now than I did before working with the map





van de kaart  
geleerd

- ▶ 1. The added text fields are needed to understand the map
- 2. I would have liked to get more time to look at the map
- 3. I would have liked to get more explanations about the map
- ▶ 4. I have not been able to study the whole map
- 5. I would have liked to get more explanations about the map
- 6. Without the text fields this map would have been useless
- ▶ 7. I would have liked to get more time to look at the map



*"It is a map to learn from"*

*"Provides deeper information"*

*"Expresses an opinion"*

*"Good for learning the basic knowledge"*

*"Accurate map"*

*"It really shows war"*

*"It shows who took part in a funny way"*

*"It is clear that the plain map is more familiar, and when you have learned with plain maps for all your life, it is hard to switch to satirical maps"*

*"Country names, borders, and colors"*

# Teachers

INTERVIEWEES			
Interviewee	Gender	Age	Occupation
1	M	67	Retiree (former teacher on Dutch secondary school)
2	M	61	Teacher on Dutch secondary school
3	F	29	Teacher on Dutch secondary school
4	M	45	Teacher on Dutch secondary school
5	M	43	Teacher on Dutch university
6	M	39	Teacher on German BOS
7	F	37	Teacher on German BOS

- Useful are..
- Usefulness of a map depends on..
- Efficient?
- Discussion and engagement?
- When to use?
- Reaching learning objectives?



Map 1



Map 2



Map 3



Map 4



Map 5



Map 6

# 5

What conclusion can be drawn concerning the **usability** of a satirical map in contrast to a plain map?

1. Acknowledge different points of view
2. Critical thinking
3. Analytical thinking
4. Understand historical facts / relationships
5. Assessing what data is reliable
6. Know the difference between facts and opinions
7. Consider the multicausality of phenomena and events
8. Use knowledge gained by the analysis of visual sources (e.g. images, photographs, graphs, statistics and election posters) to understand manipulation attempts and to address them argumentatively

# Conclusion

“Discussion and engagement not higher with the use of satirical maps, but satisfaction..”

“Lower effectiveness due to a low capability of teaching historical facts, but for deep learning..”

“Satirical maps are seen to have a particularly low efficiency in contrast to plain maps”

“Students should grow up as critical citizens who are curious about the world”

# Conclusion

Satirical maps **do** possess characteristics that are contributory in reaching history class objectives, which makes the satirical map a beneficial medium in history class.



# Limitations

- Internal validity
- External validity
- Comparative design  
Mismatch concerning effectiveness



# Future Research



- Specific groups  
age, academic level
- Focus on effectiveness  
test 'deep knowledge'

Thank you for your attention!



# References

1. *Europäische Rundschau. Töte den Adler nach deutscher Auffassung.*  
Source: Soucacos, P., *Satirical Maps. Historical and Satirical Accounts of Europe (19th-20th century)*, 2015, p. 199.
2. *A Small State Threatens Germany, from Survey Graphic, Oct. 1941.*  
Source: Quam, L., *The Use of Maps in Propaganda*, 1943, p. 27.
3. *Rudolf Heinisch's map "Drei Imperien – Ein Meer" (Three Empires – One Sea).*  
Source: W. Pahl, *Das politische Antlitz der Erde. Ein weltpolitischer Atlas*, Leipzig: Wilhelm Goldmann Verlag 1939, p. 82.
4. *European Revue. Kill that eagle.*  
Source: "European Revue (Kill That Eagle) 1914.jpg", 2008; by Paul K is licensed under CC BY 2.0, [https://commons.wikimedia.org/wiki/File:European\\_Revue\\_\(Kill\\_That\\_Eagle\)\\_1914.jpg](https://commons.wikimedia.org/wiki/File:European_Revue_(Kill_That_Eagle)_1914.jpg)
5. College voor Toetsen en Examens. <https://www.examenblad.nl/vak/geschiedenis/2019>
6. ISB. <https://www.lehrplanplus.bayern.de/fachlehrplan/bos/12/geschichte-sozialkunde-bo>
7. *Maps from the exercise for the interviewees*  
Sources: "European Revue (Kill That Eagle) 1914.jpg" by Paul K is licensed under CC BY 2.0, 2008; Soucacos, 2015, p. 185, 221, 199, 207, 189

## *Clipped satirical figures*

Source: "European Revue (Kill That Eagle) 1914.jpg", 2008; by Paul K is licensed under CC BY 2.0, [https://commons.wikimedia.org/wiki/File:European\\_Revue\\_\(Kill\\_That\\_Eagle\)\\_1914.jpg](https://commons.wikimedia.org/wiki/File:European_Revue_(Kill_That_Eagle)_1914.jpg)

