

# Web Mapping & Visualisation

Dashboards

Elisabetta Pietrostefani

# Today

- What?
- Why?
- How?

# Dashboards: *What?*



BS  Donnerstag, 28. Februar 2019

### Meine offenen Aufgaben

6 Meine offenen Aufgaben

### Leistungsstand

25.10% Leistungsstand

### Neue Dokumente

41 Neue Dokumente

### Neue Urlaubsanträge

0 Neue Urlaubsanträge

### Rechnungseingänge

3 Rechnungseingänge

### Neue E-Mails

10 Neue E-Mails

### Offene Mängel

0 Offene Mängel

**Projekte**

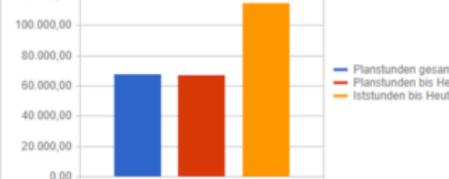
- 08-10999: Gutachten Statistik
- a-A235: BAB
- A-2016\_005: Essen - Ing.Bau
- A-A234:

**Projektübersicht**



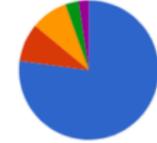
Kategorie	Wert
Auftragswert	35.000.000,00
Erbracht	10.000.000,00
Fakturiert	0,00
Fakturierbar	10.000.000,00
Kosten	5.000.000,00
Deckung	0,00

**Personalplanungsstunden und Iststunden [h]**



Stundenart	Wert
Planstunden gesamt	65.000,00
Planstunden bis Heute	65.000,00
Iststunden bis Heute	115.000,00

**Auftragswert je AG Top 5**



Company	Value
3pleP Development GmbH	~85%
Kreisverwaltung Emmendingen	~10%
Berger und Baumann	~3%
Stadtsparkasse Mengering	~2%
Volkswagen AG Wolfsburg	~2%

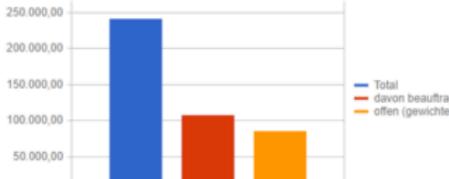
**Rechnungen/Anzahlungen**

Projekt	Projektbez.	Auftrag	Auftragsbeze...	Kostenstelle.	Adresse	Typ	Belegnu
BA18_033	Sanierung Klä...	BA18_033	Sanierung Klä...	11	3pleP GmbH	R	S190004
BA18_024	Kronau P-NW...	B-18_0024	Kronau	BE-112	3pleP GmbH	R	S190002
BA15_031	Für Fakturier...	B-15_031	Für Fakturier...	BE-112	3pleP GmbH	A	A180011
BA15-006	Ingenieurrol...	B-15-006	Ingenieurrol...	11	3oleP GmbH	A	A180012

**Zeitbuchungen**

Projekt	Projektbez.	Projektelem...	Projektelem...	Datum	Kürzel	Name	Vorname
BA08-101	KH Emmendi...	9	9	31.01.2020	BDE_WEB	Schwender	Stefan
BA08-101	KH Emmendi...	9	9	30.01.2020	BDE_WEB	Schwender	Stefan
BA08-101	KH Emmendi...	9	9	29.01.2020	BDE_WEB	Schwender	Stefan
BA08-101	KH Emmendi...	9	9	28.01.2020	BDE_WEB	Schwender	Stefan

**Nachträge PL**



Kategorie	Wert
Total	240.000,00
davon beauftragt	110.000,00
offen (gewichtet)	90.000,00

**Restauftragsbestand PL**

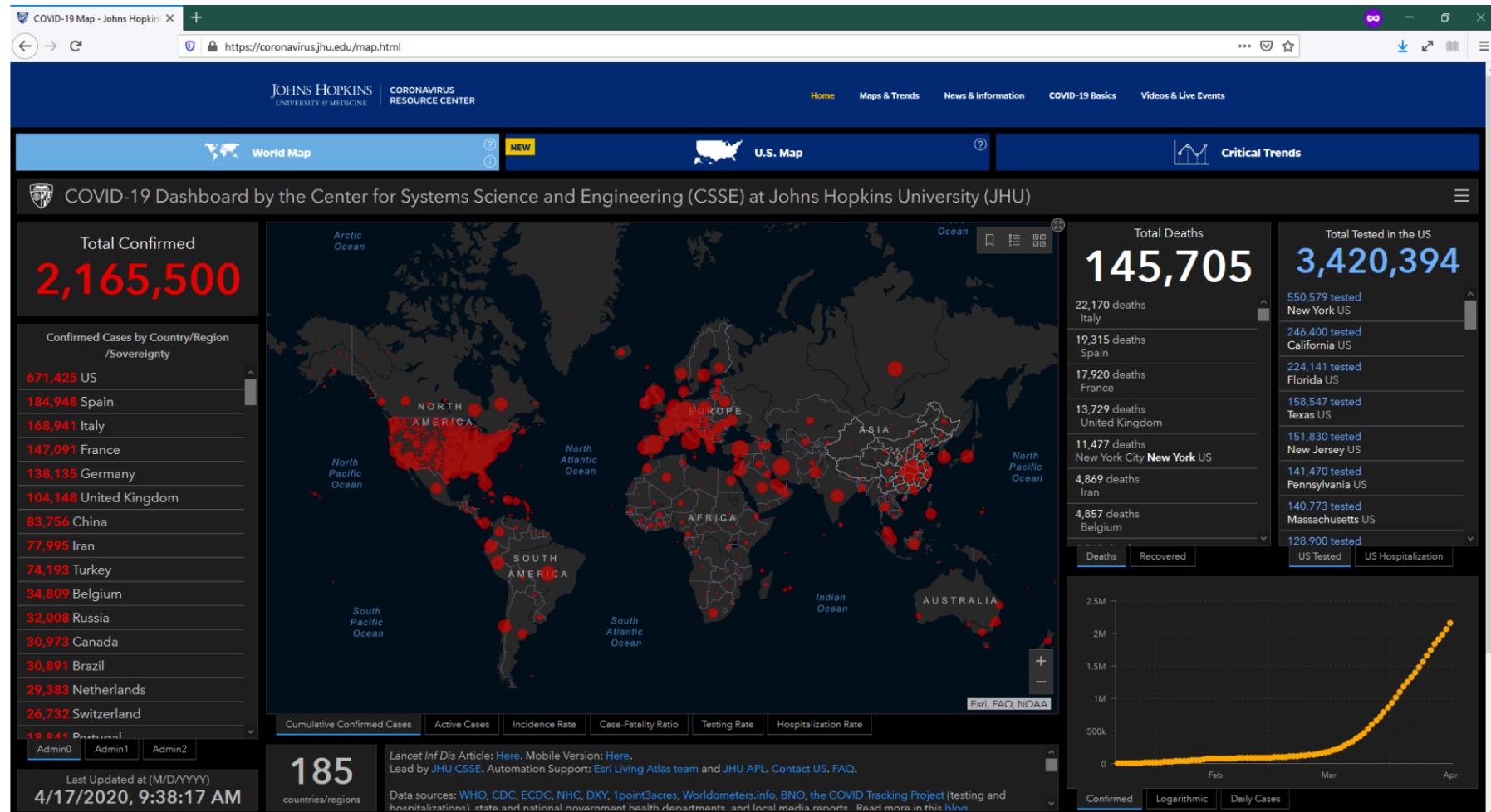


Kategorie	Wert
Auftragswert	35.000.000,00
Erbracht	10.000.000,00
Restauftragswert	25.000.000,00

**Kostenaufteilung**

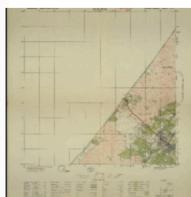


Kategorie	Wert
Perc_day: Prozent vom Tag	~10%
km: Kilometer	~10%
RK: Reisekosten	~60%
NW: Fremd Nebenkosten	~10%
Frhon: FrHon Abgrenzung	~5%
Euro:	~5%
FrHon: Fremd Honorar	~0%
1.Zett: Zeit prod. Projektleistung	~0%





## Palestine Open Maps



**Gaza**  
Survey of Palestine  
Scale: 1:20,000  
Date: 1943

[Download](#)



**Gaza**  
Survey of Palestine  
Scale: 1:20,000  
Date: 1931

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### SHEETS FROM OTHER BASE MAPS



**Sheet 19**  
Palestine  
Exploration Fund  
Scale: 1:63,360  
Date: 1877

[Download](#)

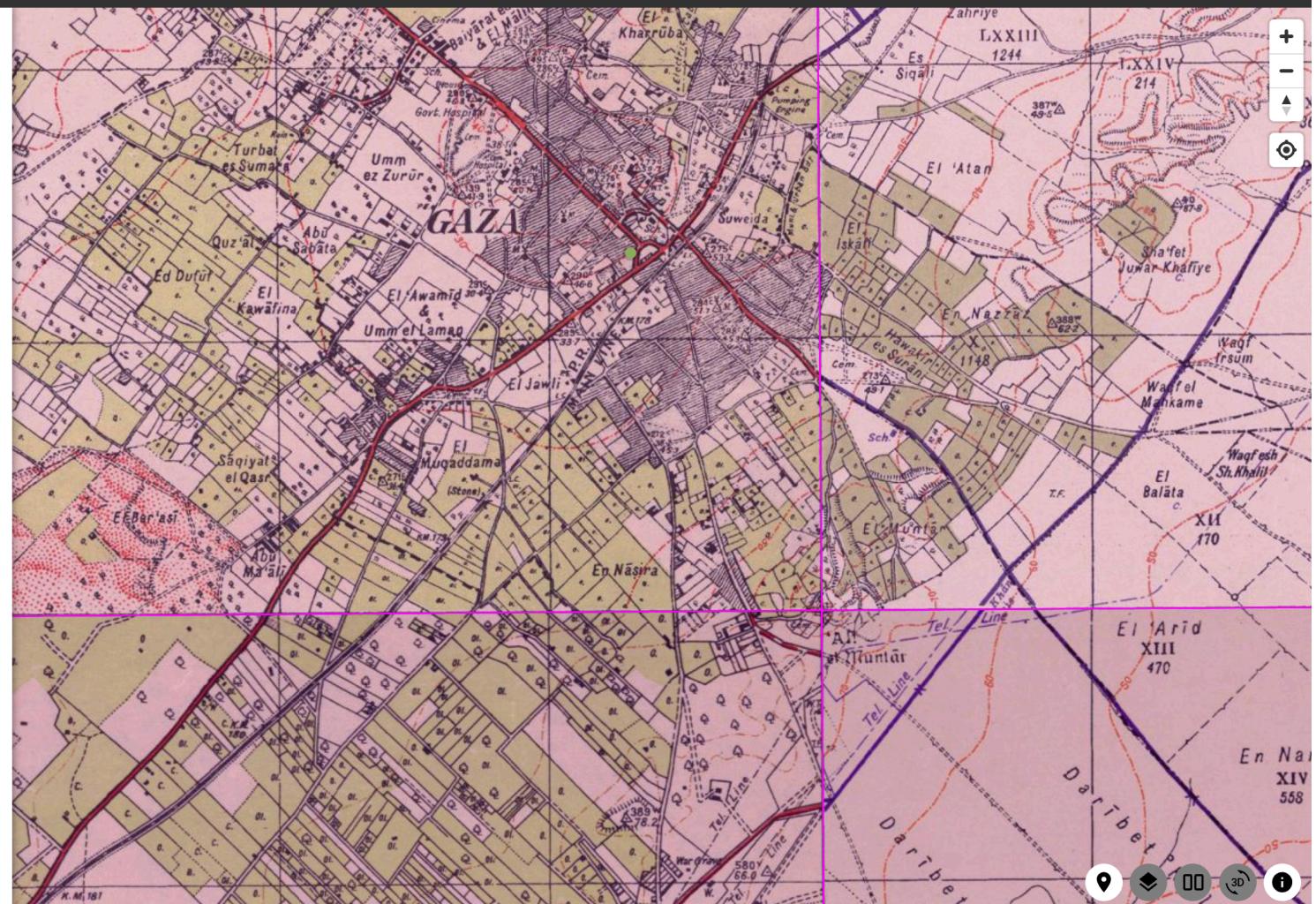


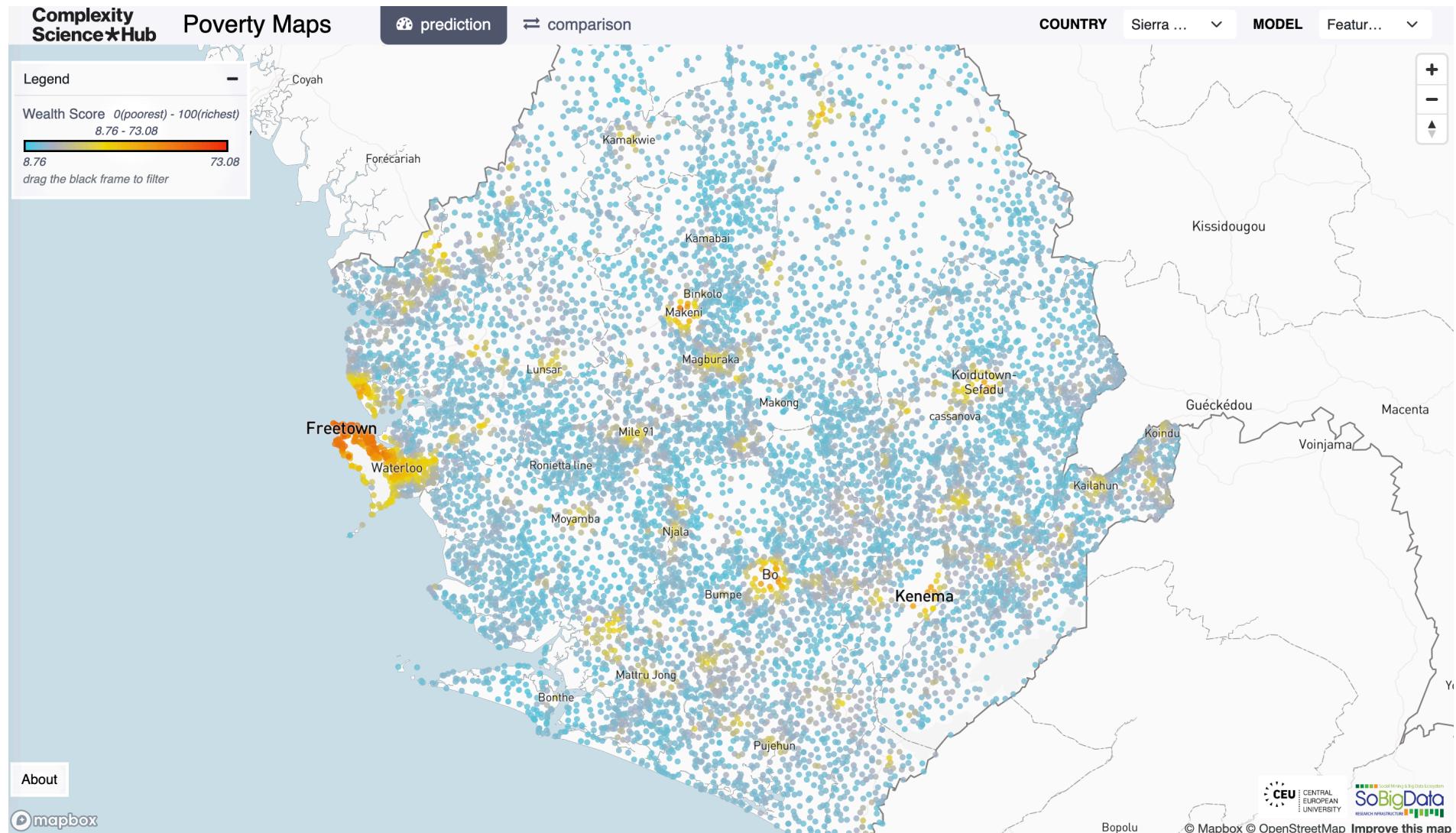
**Gaza**  
Survey of Palestine  
Scale: 1:100,000  
Date: 1959

[Download](#)



**Sheet 2**  
Survey of Israel  
Scale: 1:250,000  
Date: 1951





# (Digital) Dashboards

*[...] single-screen display of the most important information people need to do a job, presented in a way that allows them to monitor what's going on in an instant*

Few (2006)

# (Digital) Dashboards

- “Centralisers” of data
- Not only about maps
- Up-to-date (dynamic/real time)

# Dashboards: *why (not)?*

# Why?

- More data, more problems: need to access streams effectively
- Dynamic data requires dynamic mediums
- Decision-driven views: focus on “key indicators”

# Useful features

- “Useful model” distilling the essential in one place
- Powerful, yet accessible (client/server model)
- Enable “designed” analysis

# Why not?

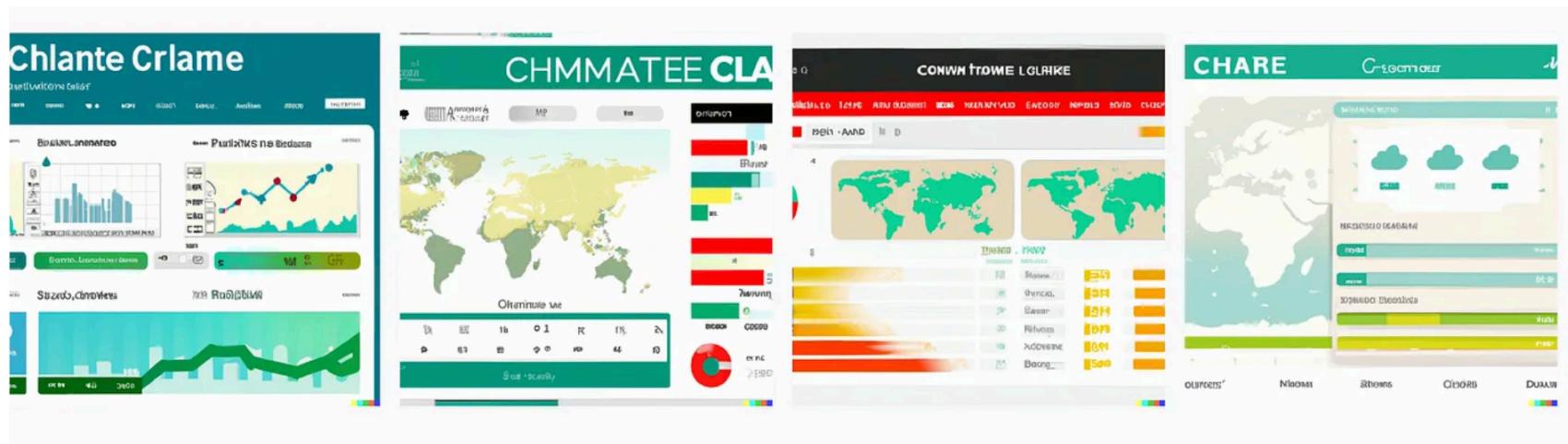
## Critical considerations

- Mechanistic view of complex/human systems
- Reductionist: Focus only on what can (and is) be measured
- Bias: What is measured? What is left out?

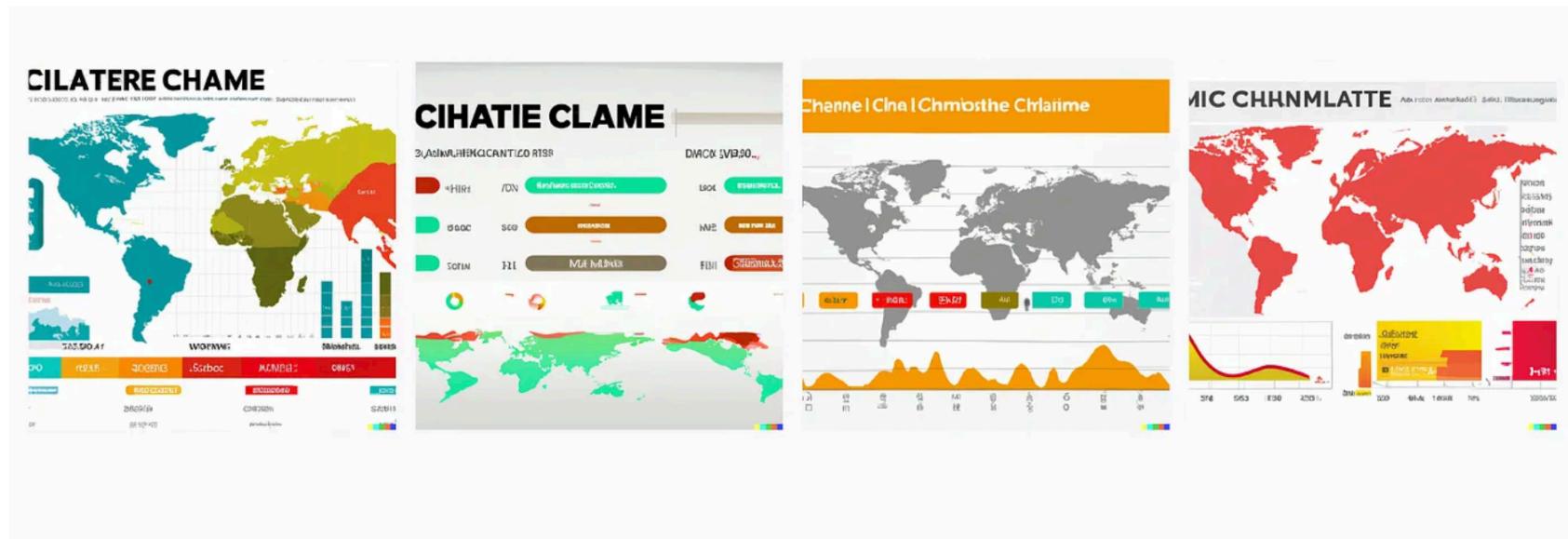
# Map-based dashboards

- At least one view is a map, but may combine with other views
- Organise information presented through space/geography
- Limited but focused analysis through interactivity (“GIS on a browser”)





DALL-E Prompt: dashboard for a climate change website, showing temperature and pollution stats, climate news, climate twitter stream and a world map



DALL-E Prompt: climate change dashboard, with temperature and pollution stats, climate news, climate twitter stream and a world map

# Dashboards: *how?*

# How to design a dashboard

- Purpose first, technology next
- One-rule **does not fit-all**
- Learning by (others') mistakes

# Thirteen mistakes in Dashboard Design (Few, 2006)

# Thirteen mistakes... (1-3)

1. Exceeding a single screen
2. Supplying inadequate context for the data
3. Excessive detail/precision

# Thirteen mistakes... (4-6)

- 4. Choosing a deficient measure
- 5. Inappropriate display media
- 6. Meaningless variety

# Thirteen mistakes... (7-9)

- 7. Poorly designed display media
- 8. Inaccurate encoding of quantitative data
- 9. Poor arrangement

# Thirteen mistakes... (10-13)

10. Highlighting important data ineffectively

11. Display cluttering/decoration

12. Color mis/overuse

13. Unattractive visual displays

# Enabling analysis

- Not only display of information
- Interactivity fits more into one screen
- “Purpose-built GIS”



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