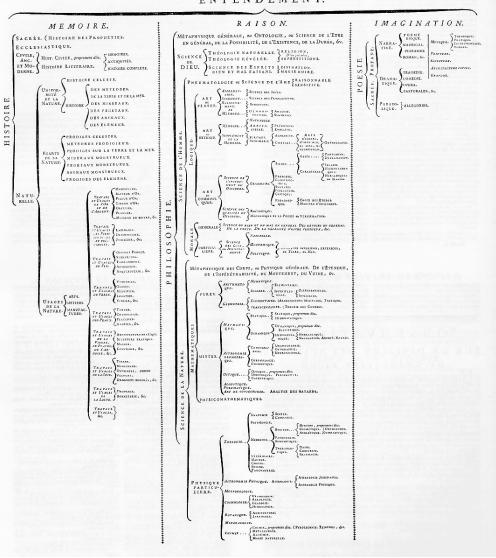
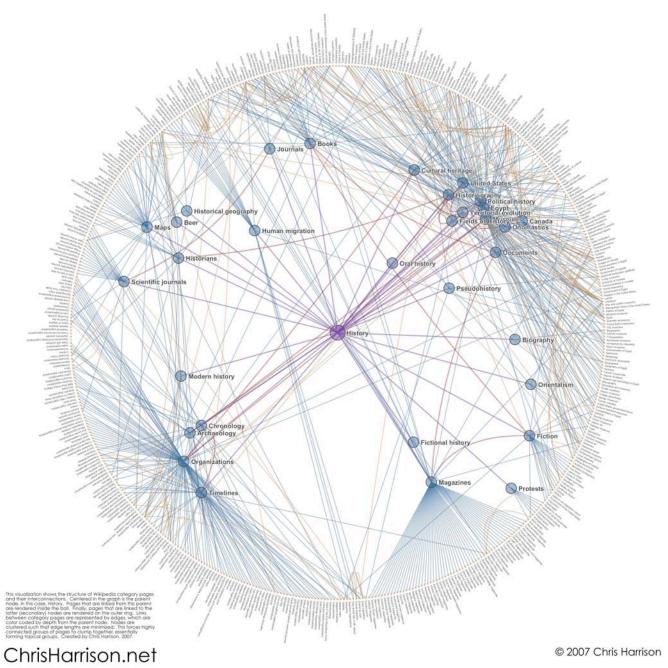


www.migropolis.com

*SYSTÉME FIGURE DES CONNOISSANCES HUMAINES.

ENTENDEMENT.

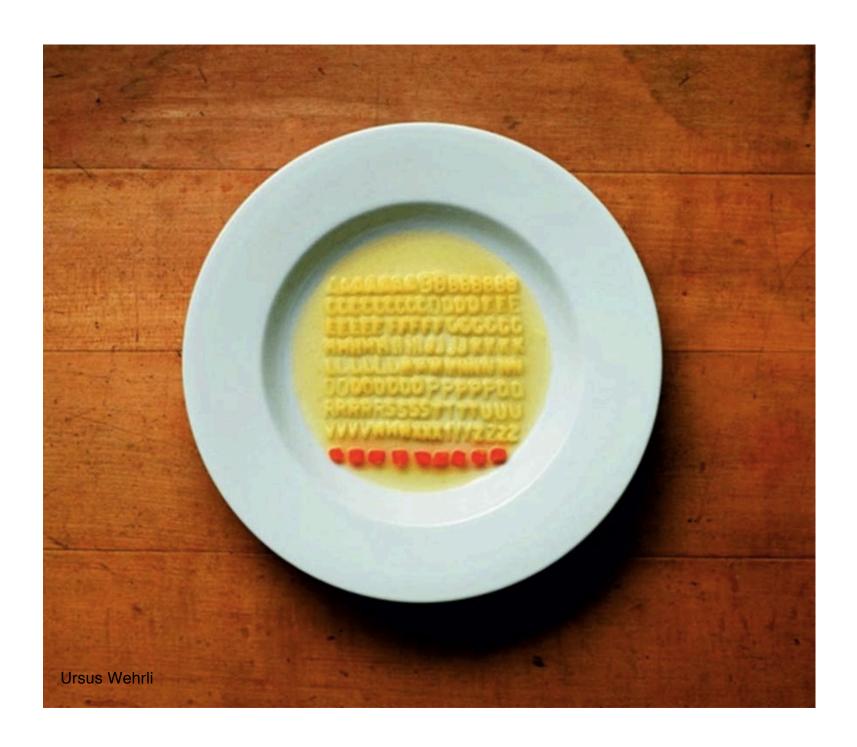




Our ability to generate and acquire data has by far outpaced our ability to make sense of that data.

Manuel Lima

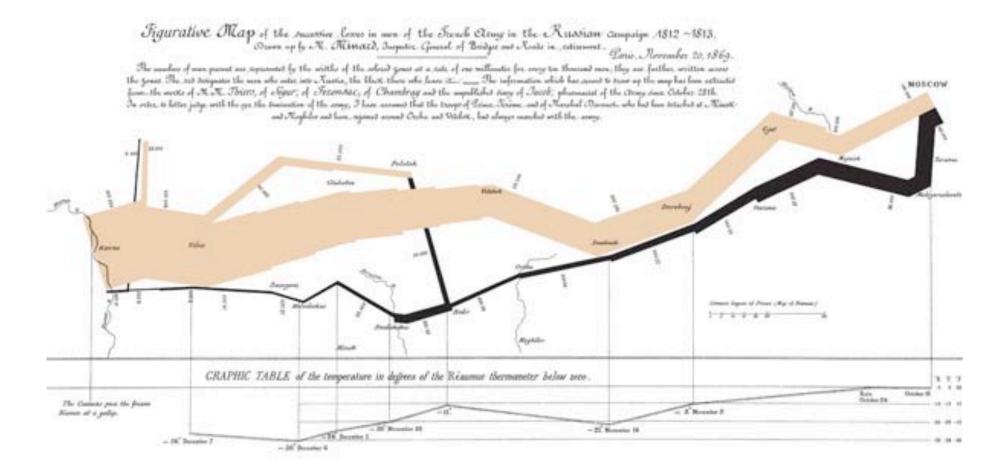




The greatest value of a picture is when it forces us to notice what we never expected to see.

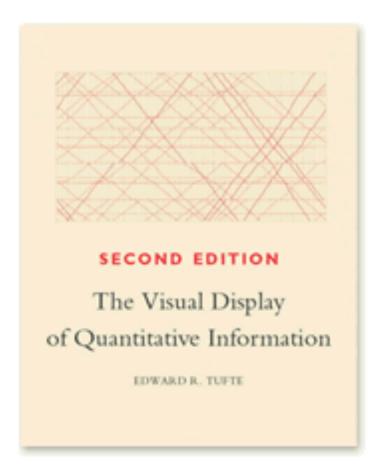
John Tukey

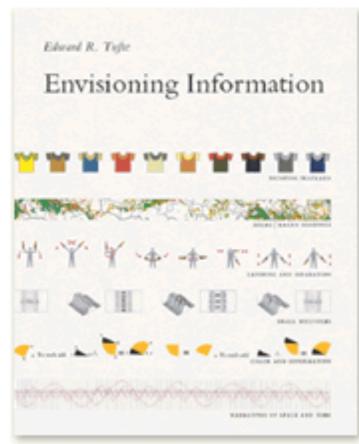
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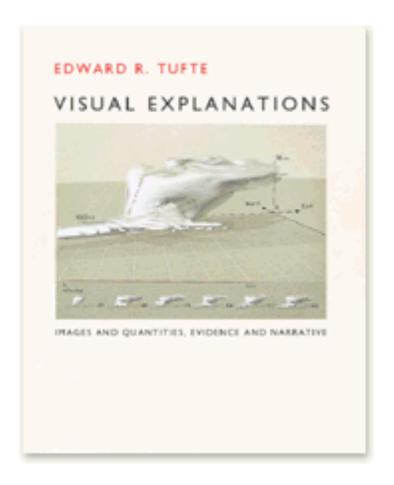


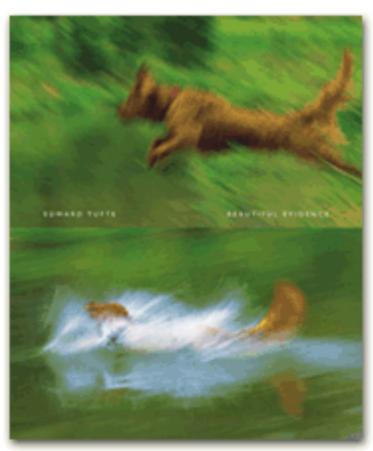
The purpose of visualization is insight, not pictures.

Ben Shneiderman



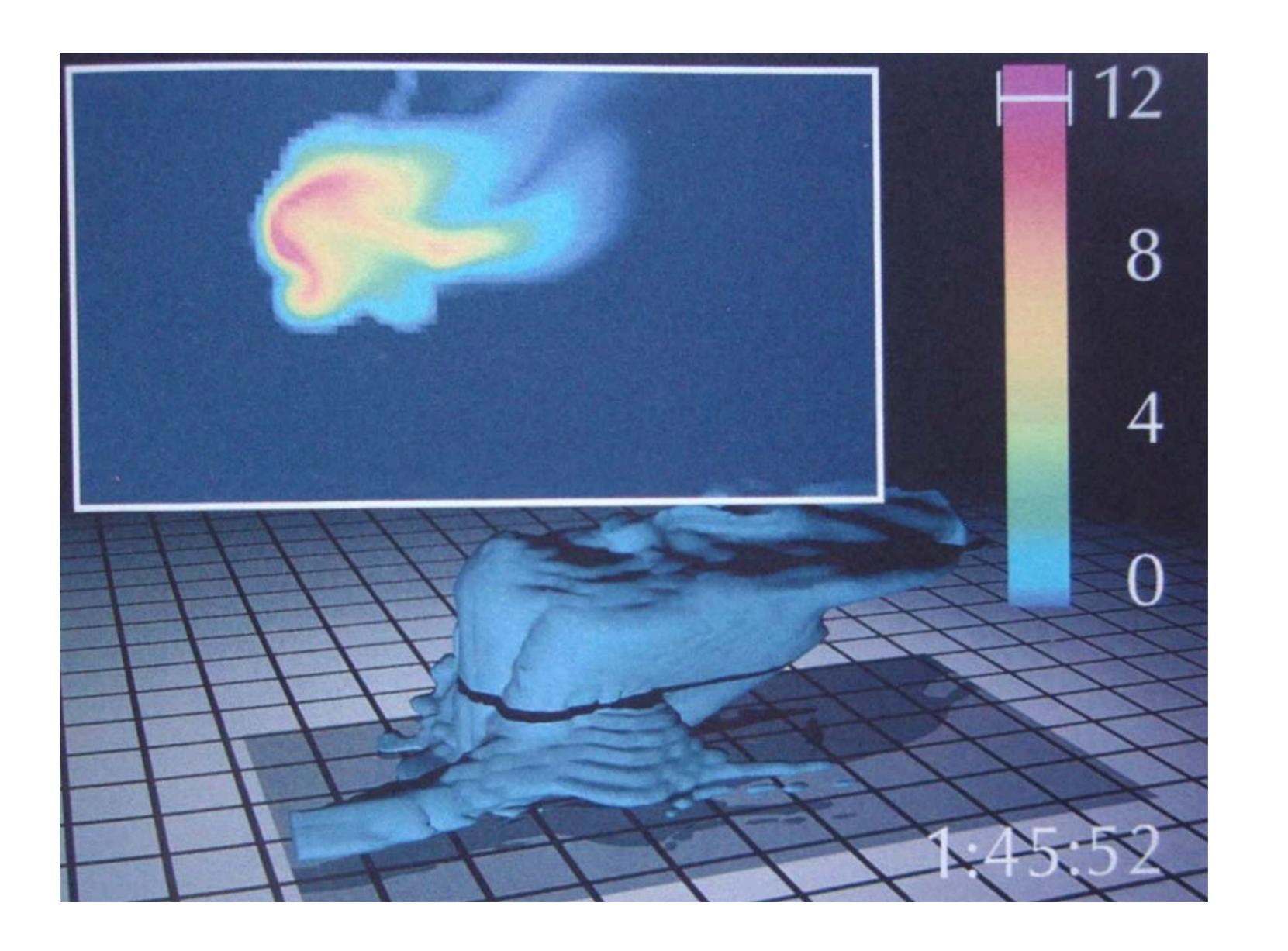


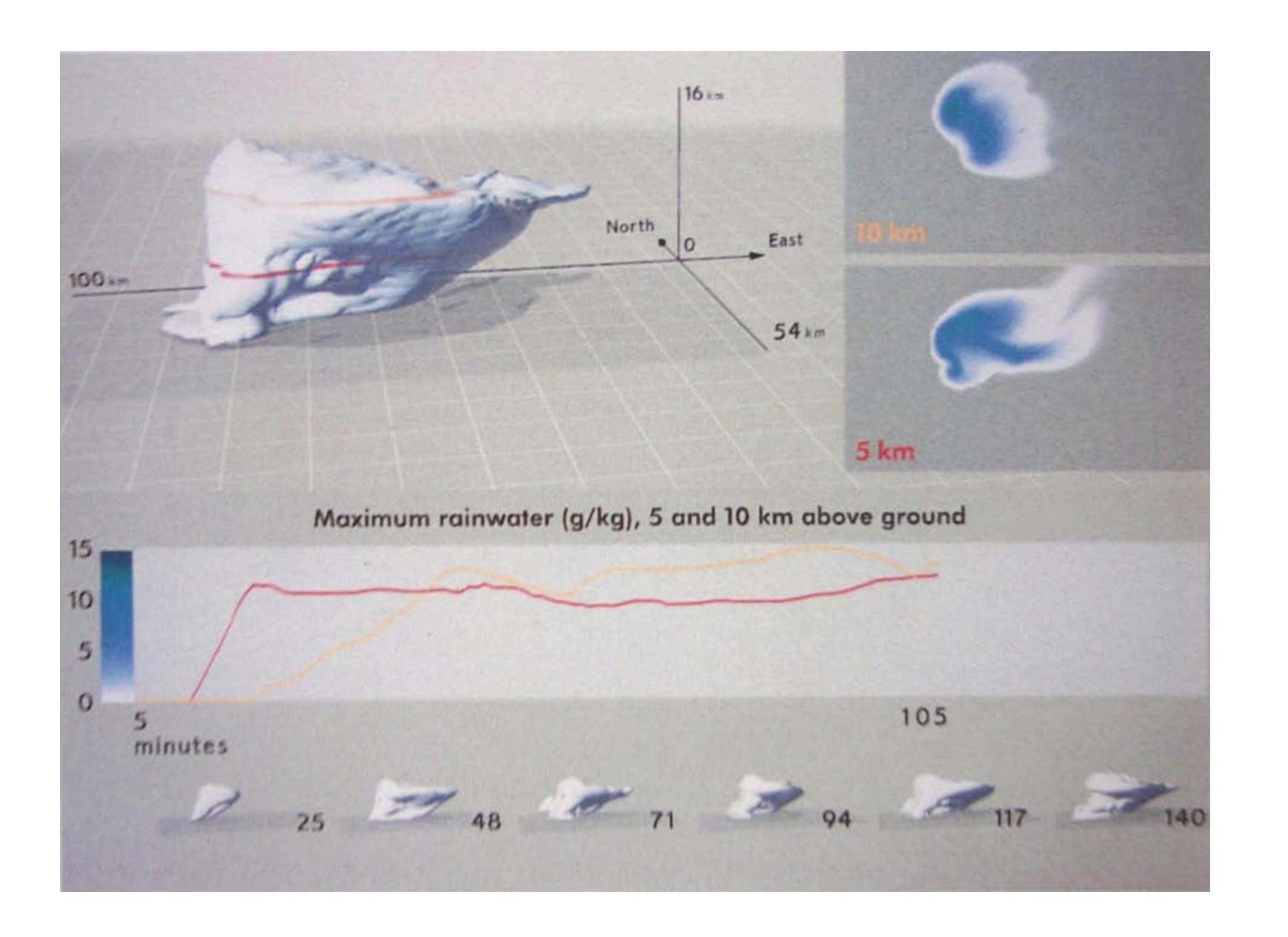




- Amazon.com: The Visual Display of Quantitative Information (9780961392147): Edward R. Tufte: Books
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- Amazon.com: Visual Explanations: Images and Quantities, Evidence and Narrative (9780961392123): Edward R. Tufte: Books
- **3** Beautiful Evidence: Amazon.co.uk: Edward R. Tufte: Books





Journalism in the Age of Data: A Video Report on Data Visualization by Geoff McGhee



- Data journalism and data visualization | News | The Guardian
- Steve Duenes -- Talk to the Newsroom -- The New York Times -- Reader Questions and **Answers - New York Times**

Narrative Visualization: Telling Stories with Data

Edward Segel and Jeffrey Heer

Abstract—Data visualization is regularly promoted for its ability to reveal stories within data, yet these "data stories" offer in important ways from traditional brins of storytelling. Storytellers, especially online journalists, twe increasingly been integrating visualizations review the design space of the remerging lass of visualizations. Daving on case studies from new mode to visualization review the design space of this merging lass of visualizations. Daving on case studies from new mode to visualization research, we identify distinct genres of narrative visualization research of the interrupt of the product of the abstract there have a transitive to visualization of the control of the abstract between the narrative to visualization of the abstract the visualization. and story discovery on the part of the reader (often through interactive exploration). Our framework suggests design strategies for narrative visualization, including promising under-explored approaches to journalistic storytelling and educational media.

Index Terms—Narrative visualization, storytelling, design methods, case study, journalism, social data analysis.

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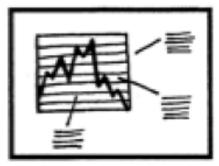
- Stanford Vis Group | Narrative Visualization: Telling Stories with Data
- Narrative Structures in Data Visualizations to Improve Storytelling » OWNI.eu, News, Augmented

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Seven Genres



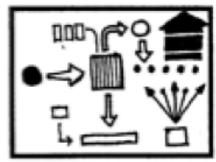
Magazine Style



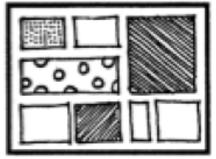
Annotated Chart



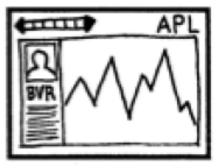
Partitioned Poster



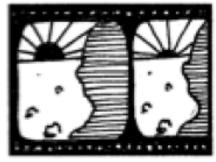
Flow Chart



Comic Strip



Slide Show

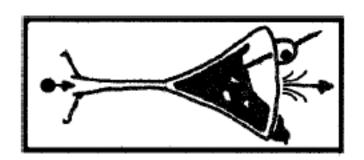


Film/Video/Animation

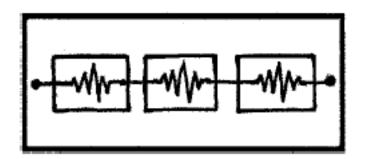
Table 1. Properties of Author-Driven and Reader-Driven Stories. Most visualizations lie along a spectrum between these two extremes.

Author-Driven	Reader-Driven
Linear ordering of scenes	No prescribed ordering
Heavy messaging	No messaging
No interactivity	Free interactivity

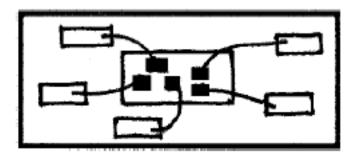
Martini Glass Structure

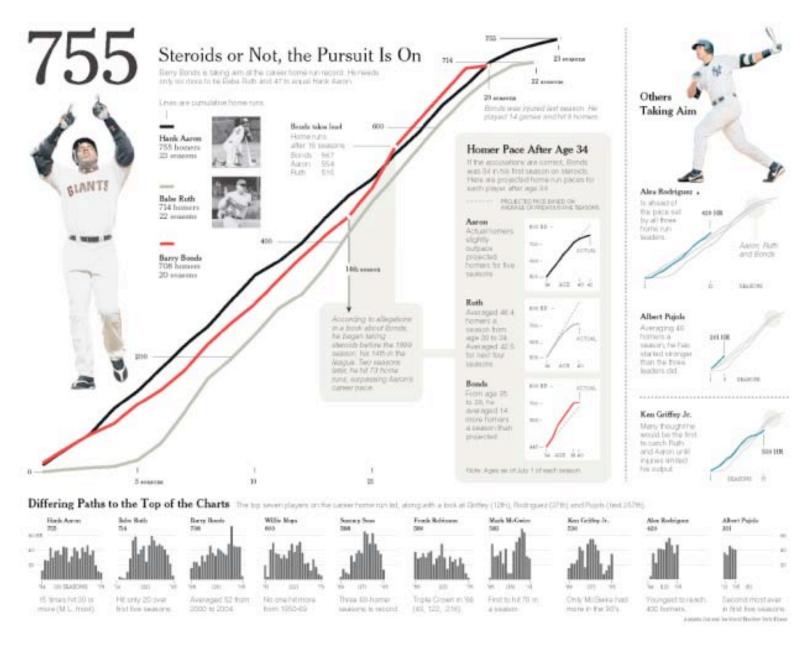


Interactive Slideshow



Drill-Down Story





Steroids Or Not, the Pursuit is On. New York Times.

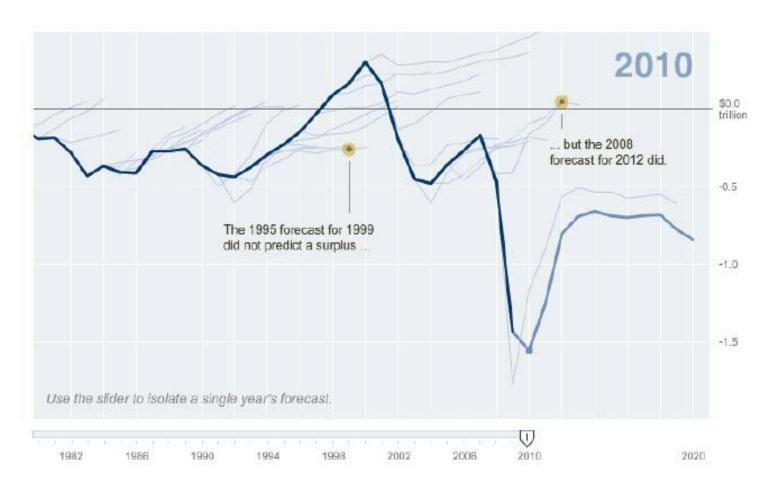
Budget Forecasts, Compared With Reality

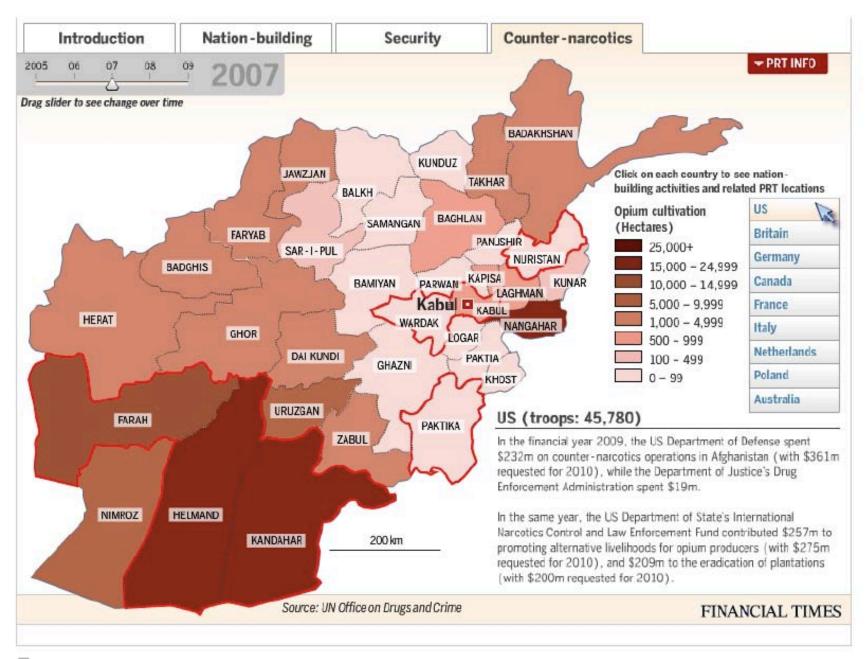
Just two years ago, surpluses were predicted by 2012. How accurate have past White House budget forecasts been?



Latest forecast

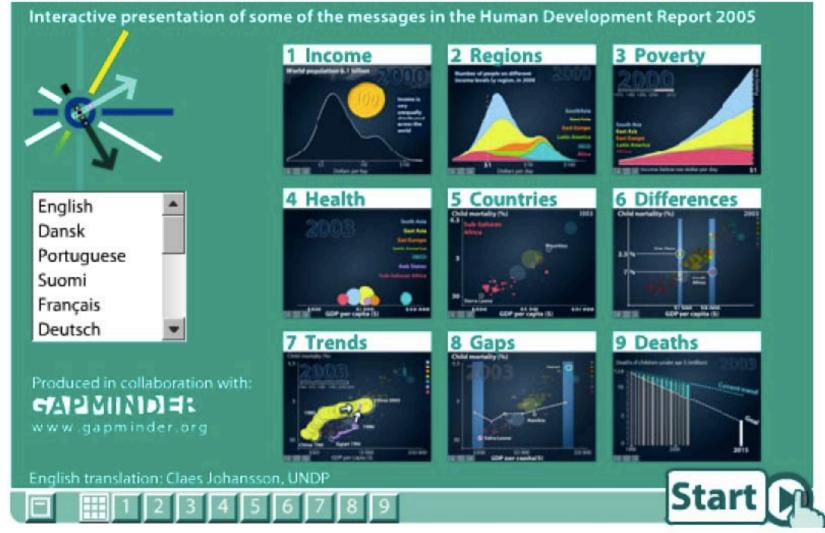
Today, with a better understanding of the severity of the economic downturn, the deficit situation is much more dire.





Human Development Trends 2005







MALOFIE 22
Sailing in the big data

snd-e

March 23-28 marzo 2014 Spain, Pamplona, España

ABOUT

AWARDS

SHOW DON'T

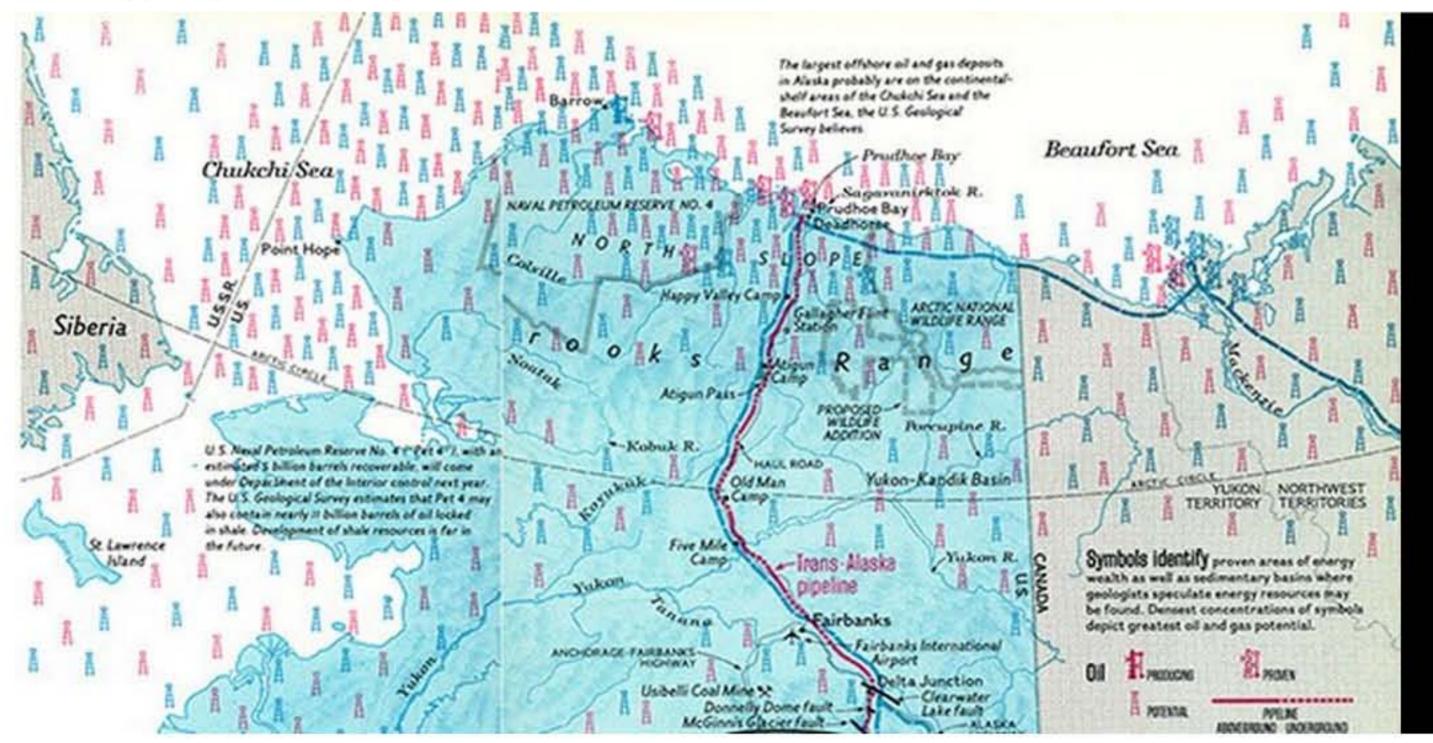
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National Geographic's Trans-Alaska Pipeline story

By John Tomanio Like many others, I have been reading National Geographic since I was a child. Now that I am [...]

FLOOD ZONE

Venetians are used to getting their feet wet, and efforts to alleviate the long-term effects of water are part of daily life in the city. During the acqua alta, unusually high tides cause floods (map). The lowest lying areas (darkest blue) are most often inundated.

HOW OFTEN?

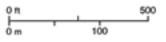


BUILDING AND CANAL-WALL DAMAGE

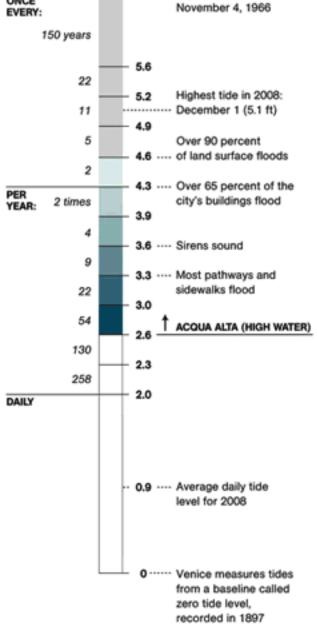
Extensive or moderate

Minimal

About half of surveyed walls and buildings show damage. Turbulent waves caused by motorboats (moto ondoso) can accelerate the deterioration of canal walls. When sediment accumulates in canals and clogs sewer lines, sewage seeps into adjoining canals and damages brick and mortar. Dredging sediment helps limit damage.



VIRGINIA W. MASON, NG STAFF SOURCES: CITY OF VENICE; INSULA; FORMA URBIS; WORCESTER POLYTECHNIC INSTITUTE, VENICE PROJECT CENTER



TIDE LEVEL

6.4 ft Highest tide on record:

 Circles mark buildings most likely to flood, due to location and structure, when area is underwater.



TIDE-LEVEL SCALE ROUNDED TO NEAREST TENTH, FREQUENCIES BASED ON 1966-2008 AVERAGES. FLOOD-INFORMATION MAP BASED ON AN INTERPOLATED MODEL OF BUILDING, SIDEWALK, AND PIAZZA ELEVATION DATA.

DORSODURO

SAN POLO

SANTA CROCE

PUNTA DELLA SALUTE TIDE-GAUGE STATION

CANNAREGIO

Palazzo dei

Camerlenghi

The ground floor of this 16th-century

when the acqua alta

reaches 3.4 feet. The

stone facade shows

SAN MARCO

moderate damage.

building floods

Punta della Salute

Piazza San Marco

One of the lowest spots in

Venice, the entrance to the

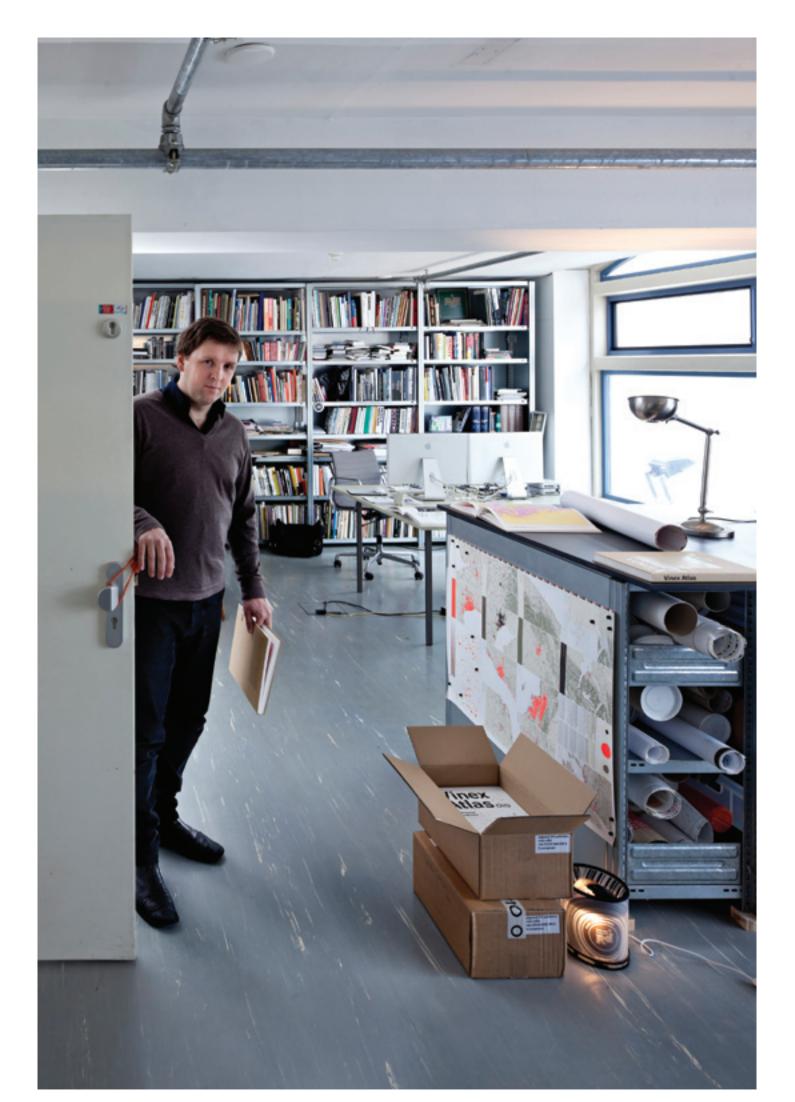
Basilica in San Marco floods

frequently. Temporary elevated walkways provide passage.

The 1897 tide measurement here has been the city's zero-level reference for sea-level rise.







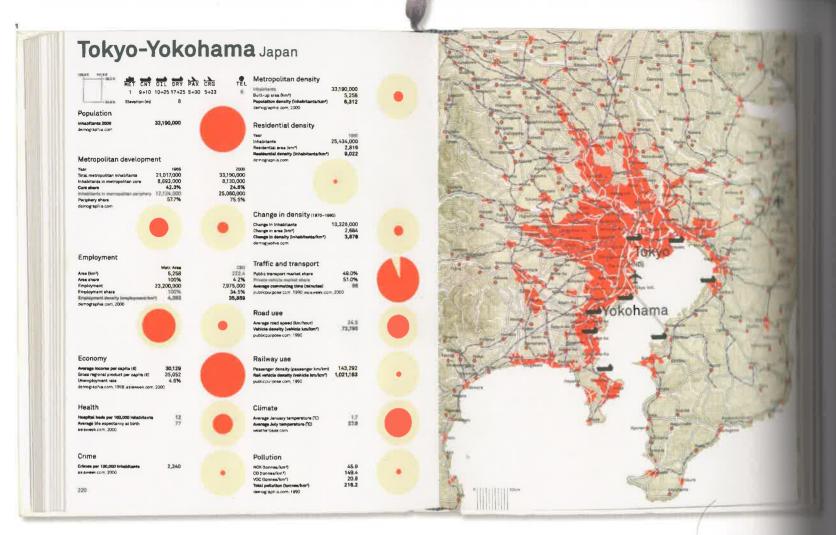
2009 was a killer year for an unassuming designer from the Netherlands. Joost Grootens will have been known to map-design fans out there for some time, especially for his much-admired Metropolitan World Atlas, but last year his fame went stellar (in design terms, at least). ROBERT URQUHART visited Grootens's studio in Amsterdam and discovered that he might just hold the key to an interesting future for graphic design.

JOOST GROOTENS

Portrait of Joost Grootens by Thijs Wolzak

www.thijswolzak.nl





METROPOLITAN WORLD ATLAS

Cover and spreads from Metropolitan World Atlas, which started out as a final thesis by Urban Design student Arjen van Susteren. When Peter de Winter of 010 Publishers read it he asked Grootens whether a specific part of the thesis - a comparison of cities in maps and data - could be made into a book. It uses a system of fluorescent orange circles, printed within larger circles of tinted varnish, to represent comparative data in 101 metropolises. The first section shows information for each place, while the second compares cities for each data point: population, life expectancy, literacy, etc. Grootens says: 'The system sometimes causes unusual compositions with empty spaces where data

Intended readership: as a tool for urban designers.

1 and 3. Spreads show cities with similar cartography but big differences in data: Tokyo'scores' higher in all categories. 2. One of eight different

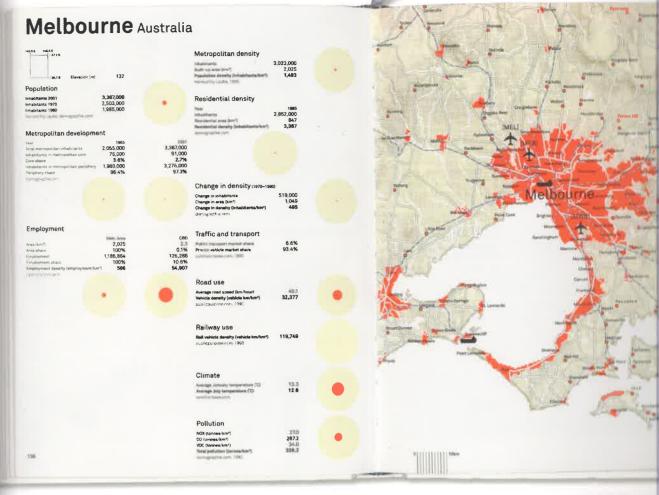
 One of eight different covers, each showing a different city. This is Moscow, from the first edition.

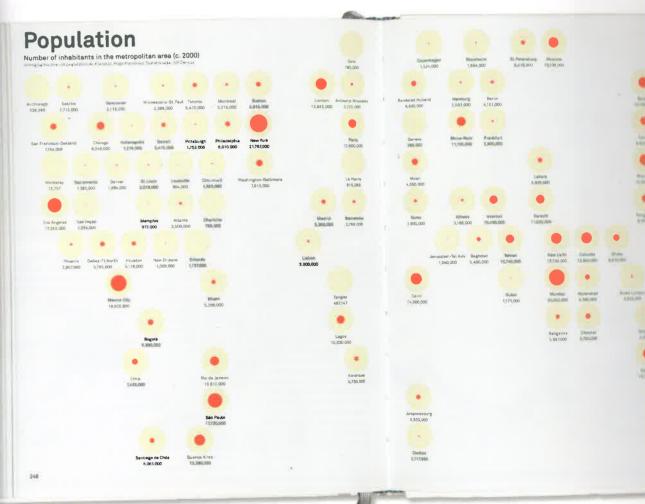
4. Spread from latter comparative section of book.

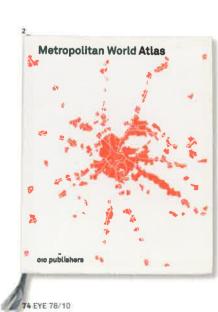
312 pages Language: English Author: Arjen van Publisher: 010 Publisher Rotterdam, 2005 Design book and map Studio Joost Crooks (Joost Crootens)
Production: Lecturity Eindhoven (printing). Interior: printed in a lin varnish and four P colours (including !! orange, metallic blue, black). Interior printerior Eurobulk Matt Endpapers: printed in the colours of the interior On Offset Cover: black foil blocking printed in fluorescent in on Invercote G. Typefaces: Akkurat # Allam Mono (Lineto). Page layout software: Chillip XPress. Maps and cultural pictograms were made la Adobe Illustrator

Dimensions: 210 • 100000

Awards:
Best Dutch Book Long
Gold medal Best Book
from all over the World,
Leipzig, 2006
Dutch Design Award
Design, 2006.
Red dot: Crand Prix I
Design, Essen, 2006.
Rotterdam Design
Prize 2009.





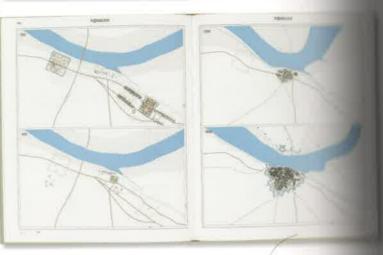


LIMES ATLAS

Cover and spreads from Limes Atlas, which charts the way that the limes, the northern boundary of the Roman Empire, has affected the Dutch landscape from AD 200 to the turn of the millennium, using maps, diagrams and photographs. Like the Atlas of the New Dutch Water Defence Line (pp.80-81), Limes Atlas shows a hidden layer of Dutch landscape, since everything has sunk in the swamp-like soil. 'These atlases show that the Netherlands is not a tabula rasa, not an empty piece of land, but that it has a historic, if invisible past,' says Grootens.

Intended readership: architects, urban designers, municipalities and civil servants.





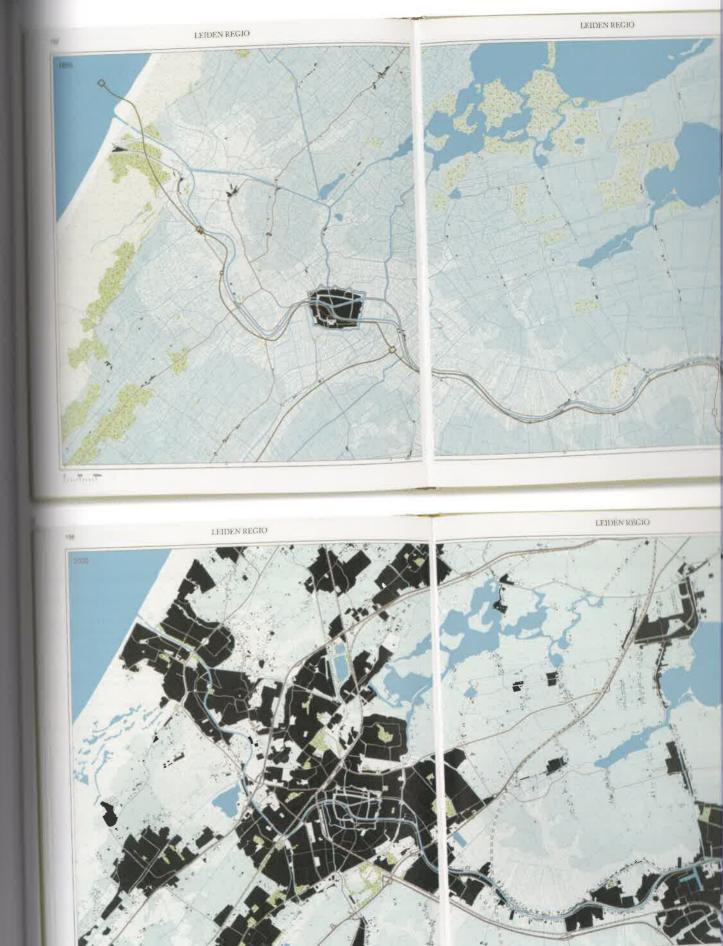


5. The cover shows the two layers of information in the atlas: the Netherlands' historical landscape in white foil blocking and the Roman fortresses in gold foil blocking. 6 and 7. Changes over time in Utrecht and Nijmegen. 8. Spread from final chapter, which contains several different approaches; a small diagram on the left connects it through use of gold and black ink to the rest of the book. 9 and 10. Two of a series of five maps that show changes in the Dutch landscape over time. In the centre of each map spread is a 4mm white gutter. This is a technique often used in atlases, as it is possible that a map will move slightly in binding, says Crootens. I used this for the first time in Limes Atlas:

Dimensions: 240mm × 285mm, 208 pages.
Language: Dutch.
Authors: Bernard
Colenbrander, MusT.
Publisher: 010 Publishers,
Rotterdam, 2005.
Design book and maps:
Studio Joost Crootens
(Joost Crootens).
Production: Lecturis,
Eindhoven (printing).
interior: printed in four Pantone
colours (including gold, blue,
green, black) and a spot varnish
on Eurobulk Matt.
Endpapers: printed in the four
colours of the interior on
Usselprint Offset.
Cover: white and gold foil
blocking; printed in black
on Papilin.

Typefaces: Basicroille (Linotype), Universities Page layout software QuarkXPress, Maps and pictograms were mode in Adobe Illustrator.

Awards: Best Dutch Book De ogn Rotterdam Design Pros

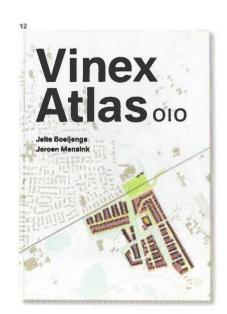




Limes Atlas 010







Vinex is the Dutch acronym for a 1990s housing planning policy document [Fourth Report of Spatial Planning Extra] that gave rise to the controversial 'Vinex districts' in Holland. The atlas includes maps and aerial photographs of the entire housing stock. Authors Jelte Boeijenga and Jeroen Mensink wanted to show that the much criticised Vinex Areas were not as monotonous as most critics claimed they were.

Intended readership: architects, urban designers, municipalities and civil servants. 11. Spread shows all the forms of information used in the atlas: aerial photograph and map to the same scale, data and text.

as a colourful extension to the beige city. I chose a rather small, not very well known area, as this shows this relationship between new and existing the clearest, says Grootens.

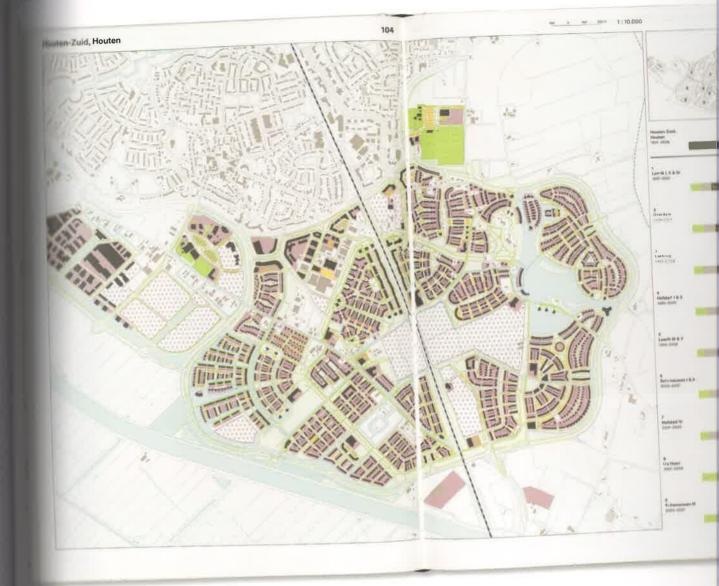
13. Maps and data in greater detail.

14. Architectural photo.

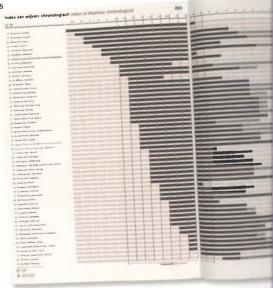
15. Bar chart from index

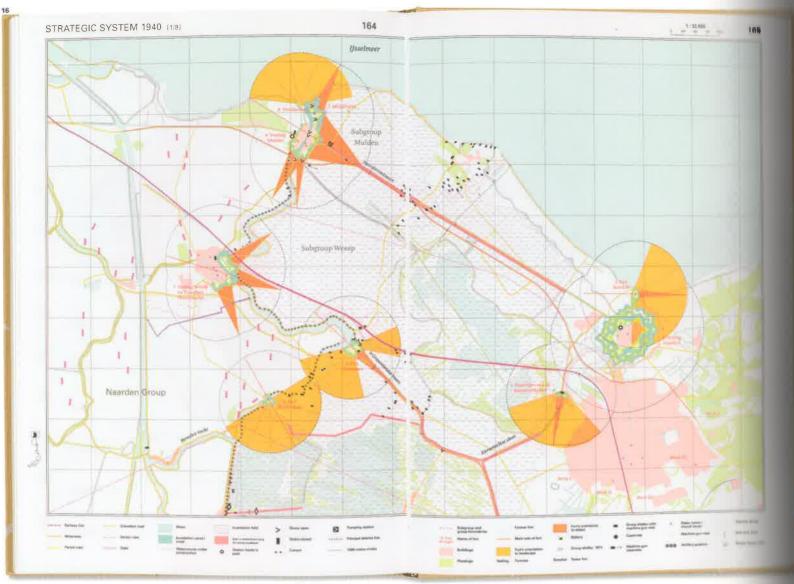
304 pages Languages, Dotch Authors: Jefte floor Jeroen Mensink Publisher: 0 to to to to Rotterdam, 2000 Design book and man Joost Grootens Cloud with Tine van Wel, Am and Anna Iwansson) Production: Lecture, Interior: printed in five colours (fluorescent per metallic pink, bogga, problue and black) on t Kiara and Revive Pure Natural Offset Endpapers: printed in the life colours of the interior nit
Pure Natural Officet
Cover: relief blocking and
printed in the five colo Wibalin Buckram Typeface: Neutral (Eni IIII) letterlabor.de) Page layout software QuarkXPress Maps and rest pictograms were made in Adobe Illustrator

Awards: Cold medal Best Book Design from all over the World Leipzig 2009. Best Dutch Book Design 2008 Rotterdam Design Prize 2008

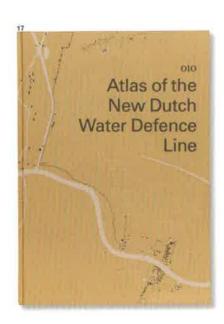








ATLAS OF THE NEW DUTCH WATER DEFENCE LINE



Grootens' design puts the water-dominated landscape of his homeland on the map, alongside historical essays, photographs and detailed maps of the complex system offorts, shelters and polders that can be flooded in the event of war. Grootens says: 'For the systems I used very bright, almost shouting colours. Leafing through the book is a succession of quiet colour palettes and bright, strong ones.'
The book was commissioned

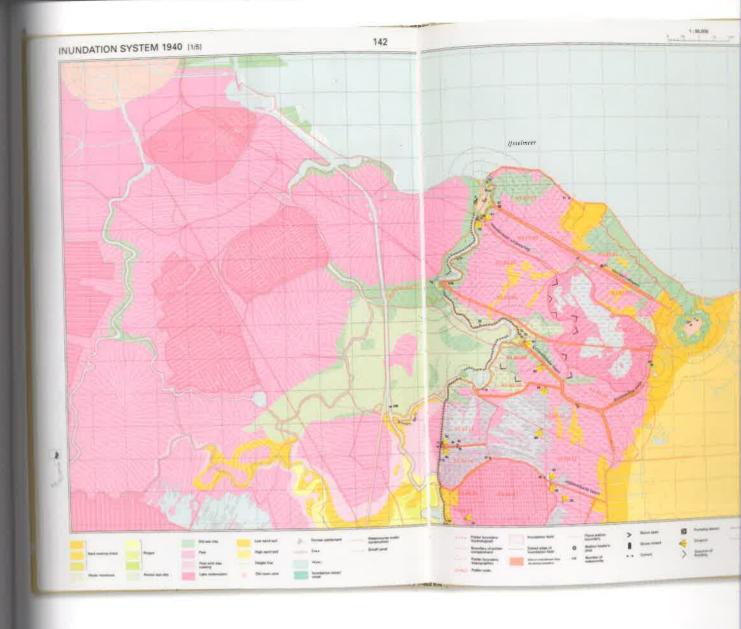
The book was commissione by The Netherlands Architecture Fund and Nieuwe Hollandse Waterlinie Project.

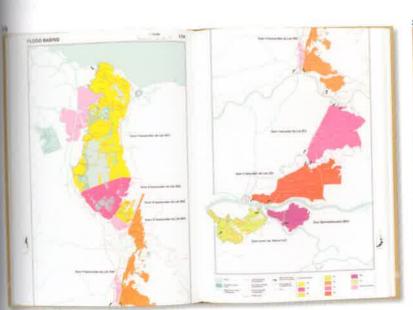
Intended readership: architects, urban designers, municipalities and civil servants. 16. Military system
superimposed on a
topographic map.
17. The cover shows an
abstract of the landscape in
grey and relief, with the
military system in black
and silver. (See enlarged
detail on page 73.)
18. Map using conventional
colours for soil types.
19. Polder system in strong
Pantone colours.
20. Cross-section through
various polders.

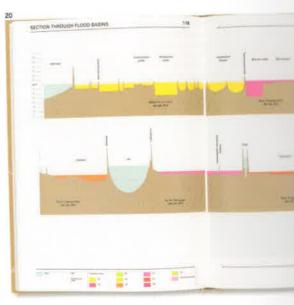
Dimension
208 pages.
Language:
translation
translation
Edited by:
Bernard Co
Publisher:
Rotterdam
Design of b
Studio Joos
Crootens w
and Adam l
Production
Eindhoven
Abhringh (6)

Language, two officers
English and Dutch
translation by John U
Edited by: Rita Gron A Bernard Colonto and Publisher: 010 Publishers Rotterdam, 2000 Design of book and maps Studio Joost Grootenii 1 Grootens with Tine van Wal and Adam Farlin), Production: Lecturing Eindhoven (printing) Abbringh, Croningen including co-now Interior: printed in five Pure colours (fluorence at yething fluorescent pinh, beijingreyish blue and blue to an Cardapat Kiara Endpapers: printed in silver and black on On Off of Cover: silver and rolet 1 and printed in groy and has a on Wibalin Buckram Typefaces: Arnhem Discort (OurType), University and Ceremony (Studio Jane) Crootens), Page layout software QuarkXPress Map modern pictograms were made to Adobe Illustrator

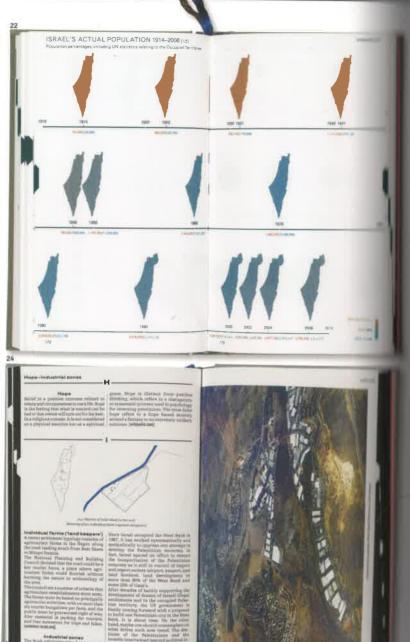
Awards:
D&AD Awards 2010 horst teet (Yellow Pencil'),
Bronze, European Compa
Awards, 2010.

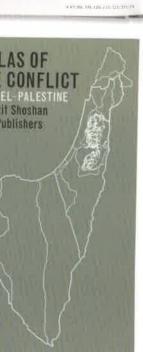


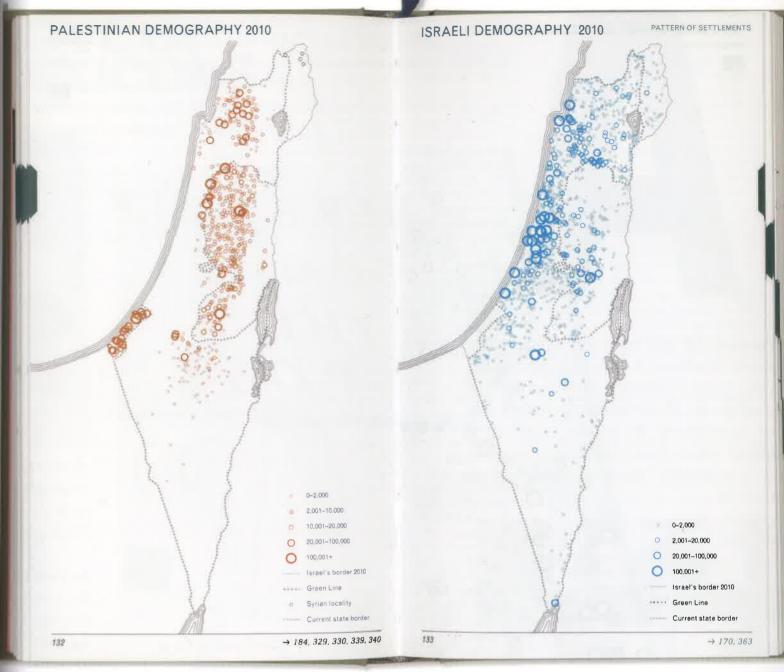












ATLAS OF THE CONFLICT: ISRAEL-PALESTINE

This atlas is in the form of a guidebook that lies easily in the hand. The first section contains maps, while the second half is a lexicon of source material. Architect Malkit Shoshan traces the geopolitical origins of the conflict from the beginning of the twentieth century, including the early settlements and what she terms 'spatial planning used as a political instrument.'

Intended readership: architects and urban designers.

21-23 and 26. Spreads showing maps and diagrams that make innovative use of two colours: blue for Israel and brown for Palestine.
22. Diagram combines three sources of information: time, data and space.
24. Spread from lexicon section of book.
25. Cover in three shades of grey, with reading ribbons in the colours of the two parties: blue and brown.
26. Juxtaposition that shows what author Shoshan calls the 'pattern' of the conflict.

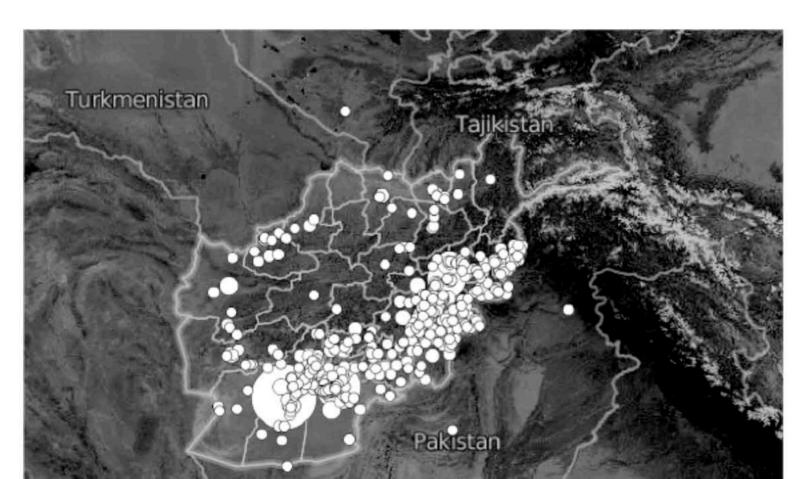
Dimensions: 115mm × 195 480 pages. Language: English. Author: Malkit Shoshan Publisher: 010 Publishers, Rotterdam, 2010 Design book and maps: Stu Joost Grootens (Joost Groo with Barbara Hoffmann, Tine van Wel, Annemarie v den Berg, Christiaan Drost Adam Farlie, Margriet Hogenbirk, Arthur Roeloff, Manuel Wesely). Production: Lecturis, Eindhoven (printing) / Abbringh, Groningen (bind Interior: printed in two Par colours (blue and brown) Cardapat Kiara (maps) and in full colour on Royal Prin Matt (lexicon). Endpapers: printed in blac on Woodstock Rosa Cover: white and black foil blocking on Buckram Pren Typefaces: Grotesque MT (Monotype) and Egyptienr

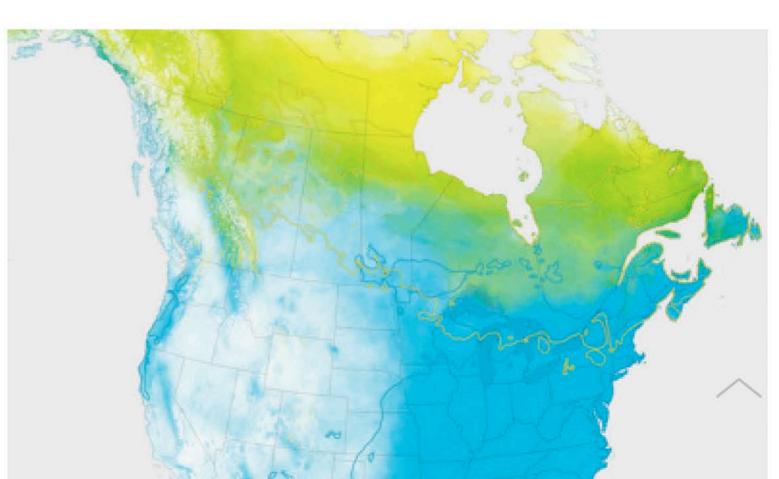
(Linotype).
Page layout software:
QuarkXPress, Maps and cupictograms were made in
Adobe Illustrator.

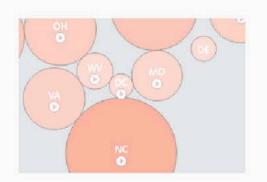












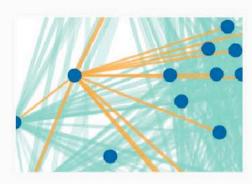
#BestSchoolDay



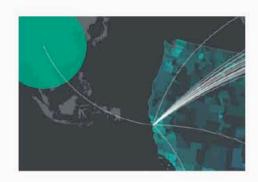
David Rumsey Map Center



Amazonia Under Threat



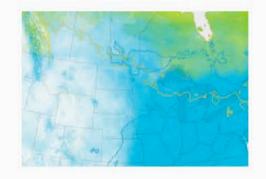
Toyota i-Road



American Panorama



Pinterest Maps



Audubon Society Climate Maps



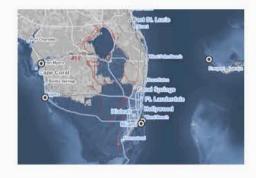
CNN: Home and Away



Open Terrain



Urban Water Blueprint



Surging Seas 2



Open Earth



Open Reblock



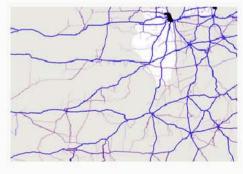
Surging Seas



California Health Care Foundation



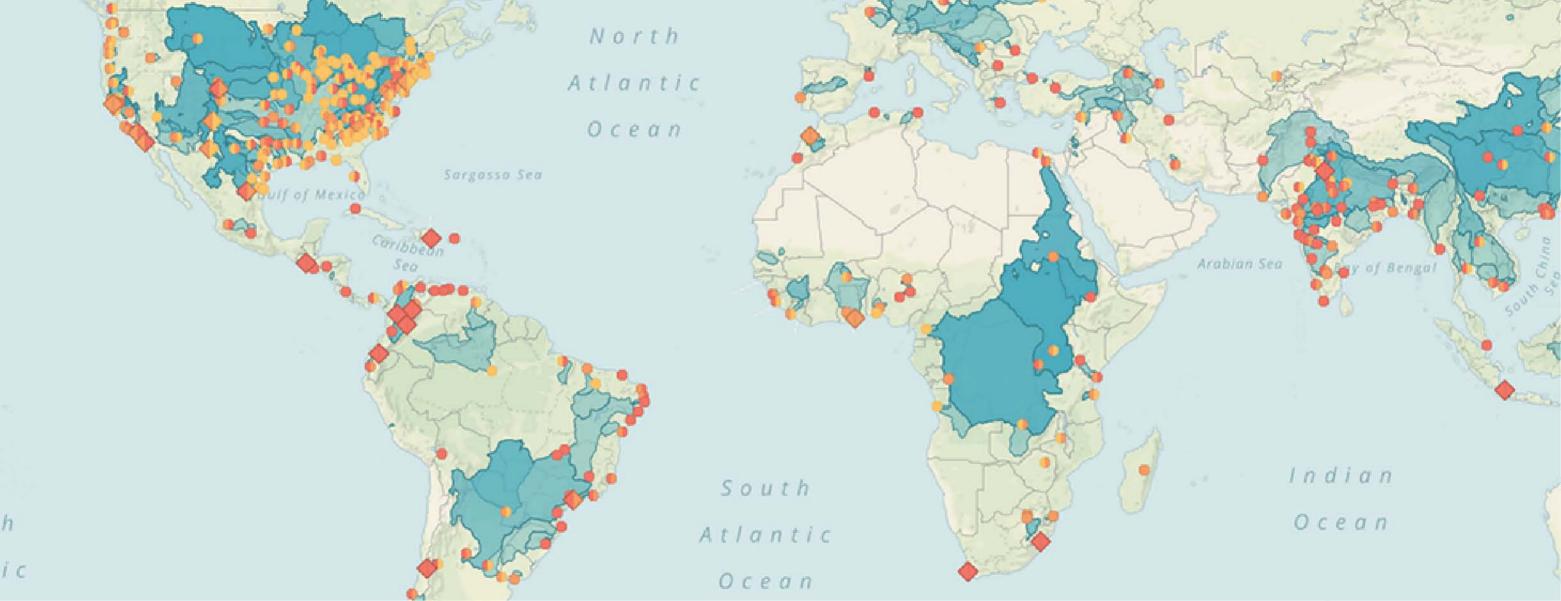
Field Papers



Where does the Money go?



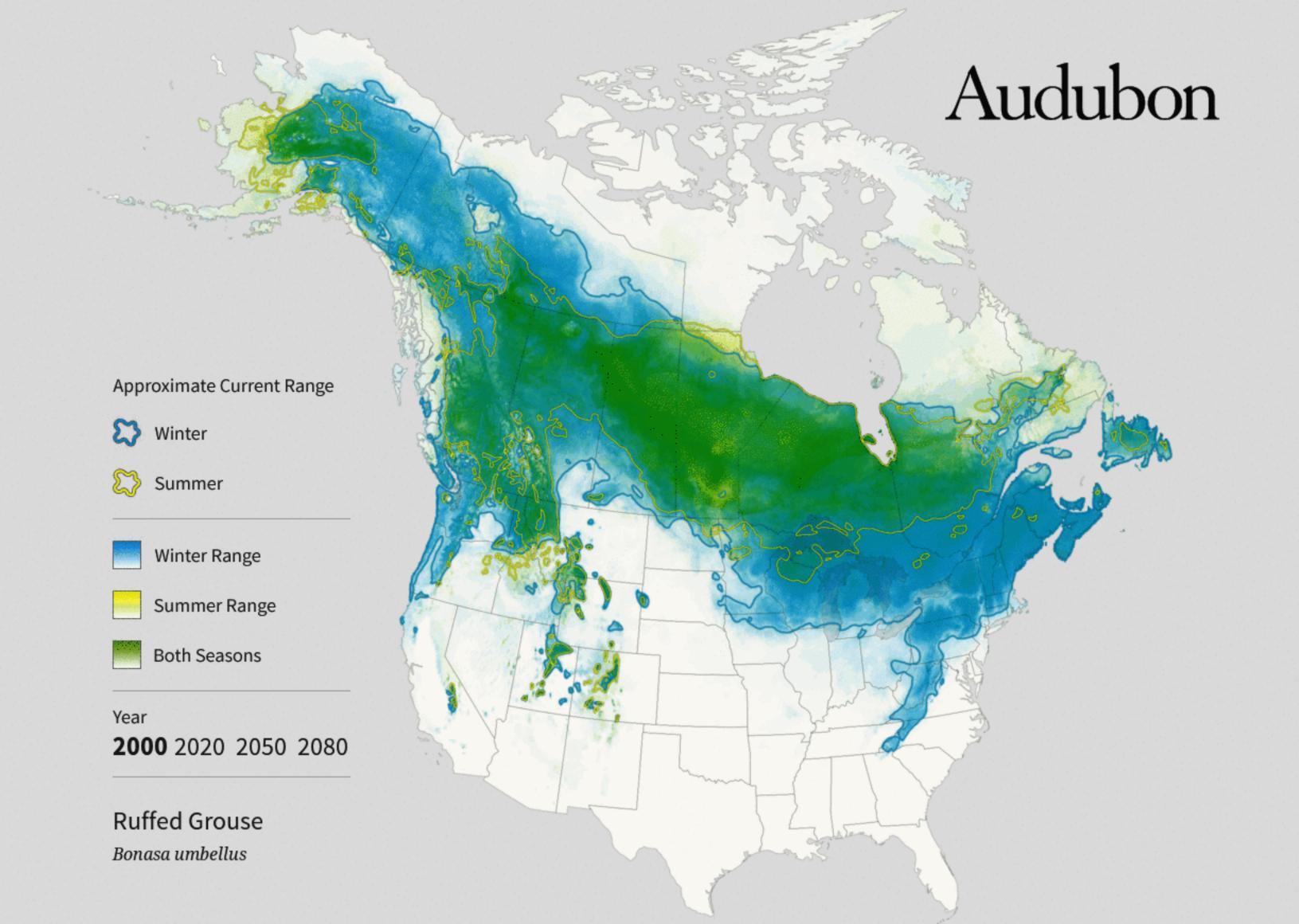
OneBayArea Map

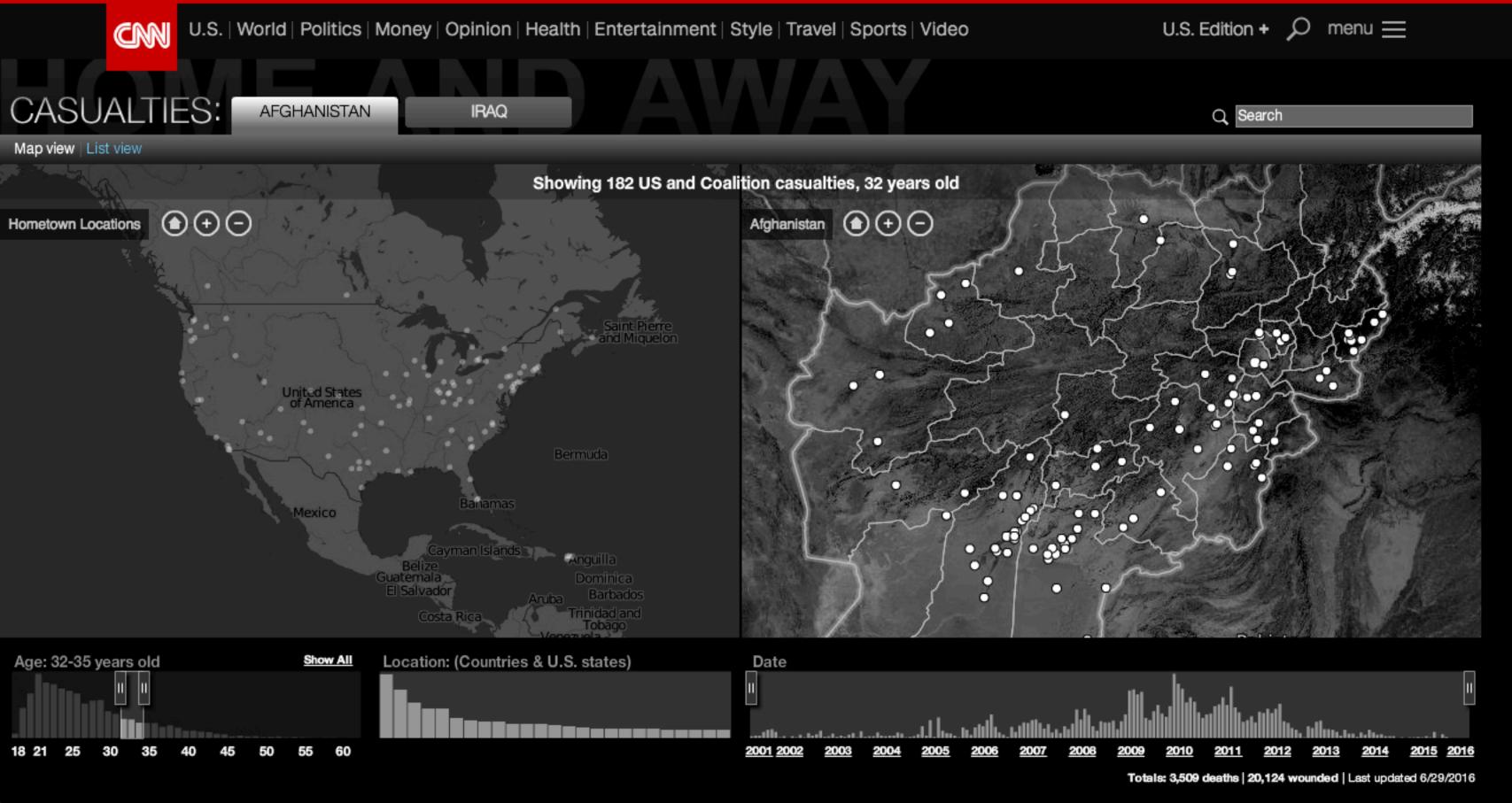












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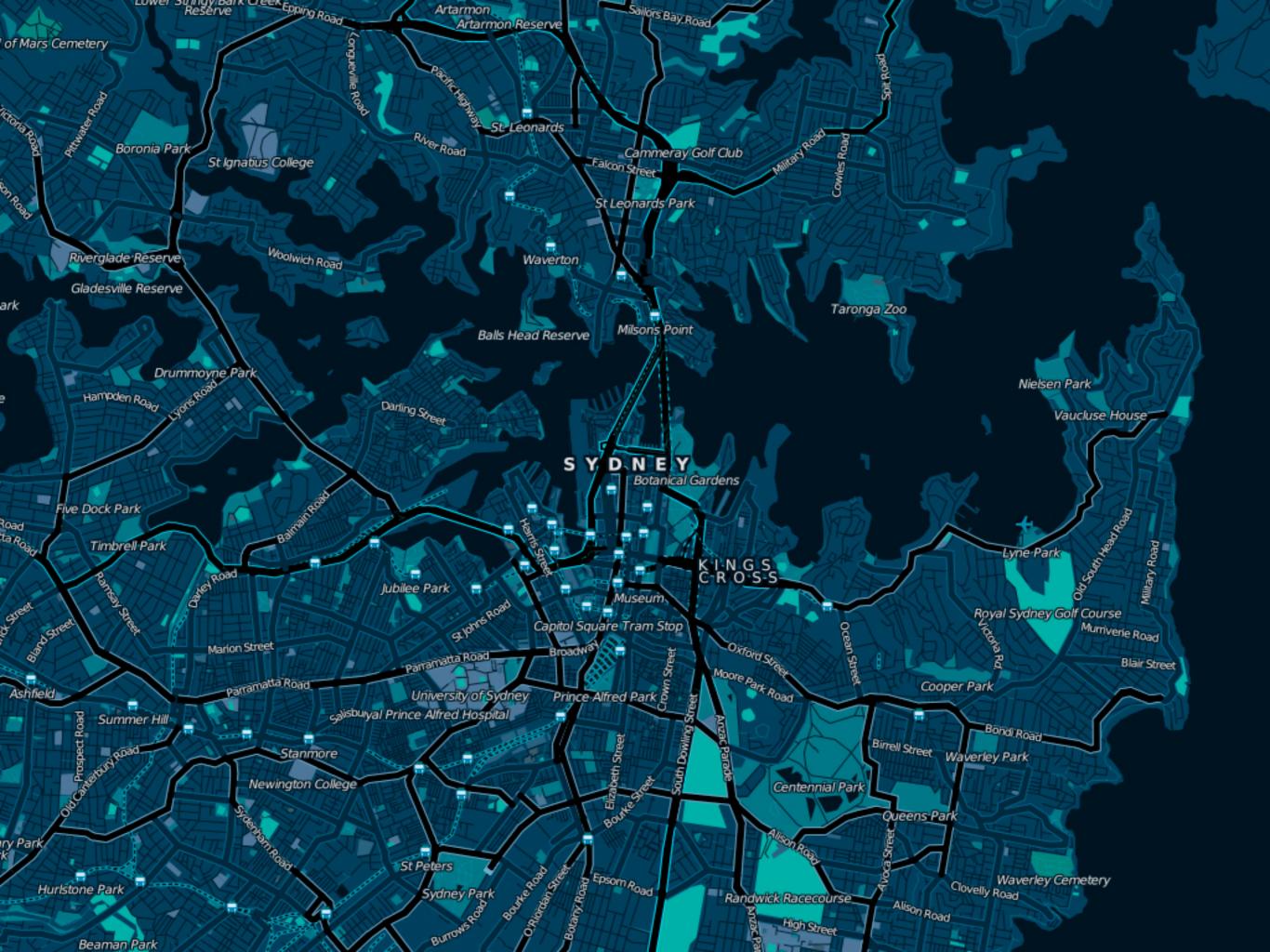
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Urban imagination and social innovation through design & science

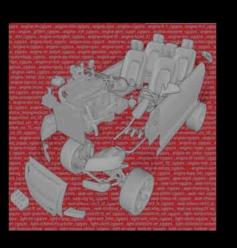
The real-time city is real! As layers of networks and digital information blanket urban space, new approaches to the study of the built environment are emerging. The way we describe and understand cities is being radically transformed—as are the tools we use to design them. The mission of the Senseable City Laboratory—a research initiative at the Massachusetts Institute of Technology—is to anticipate these changes and study them from a critical point of view.

Not bound by the methodologies of a single field, the Lab is characterized by an omni-disciplinary approach: it speaks the language of designers, planners, engineers, physicists, biologists and social scientists. Senseable is as fluent with industry partners as it is with metropolitan governments, individual citizens and disadvantaged communities. Through design and science, the Lab develops and deploys tools to learn about cities—so that cities can learn about us.

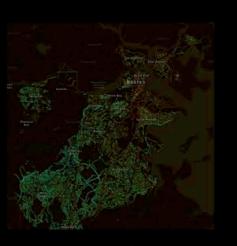
Projects



Shareable Cities 2017



Sensing Vehicle 2017



Treepedia 2016



Roboat 2016



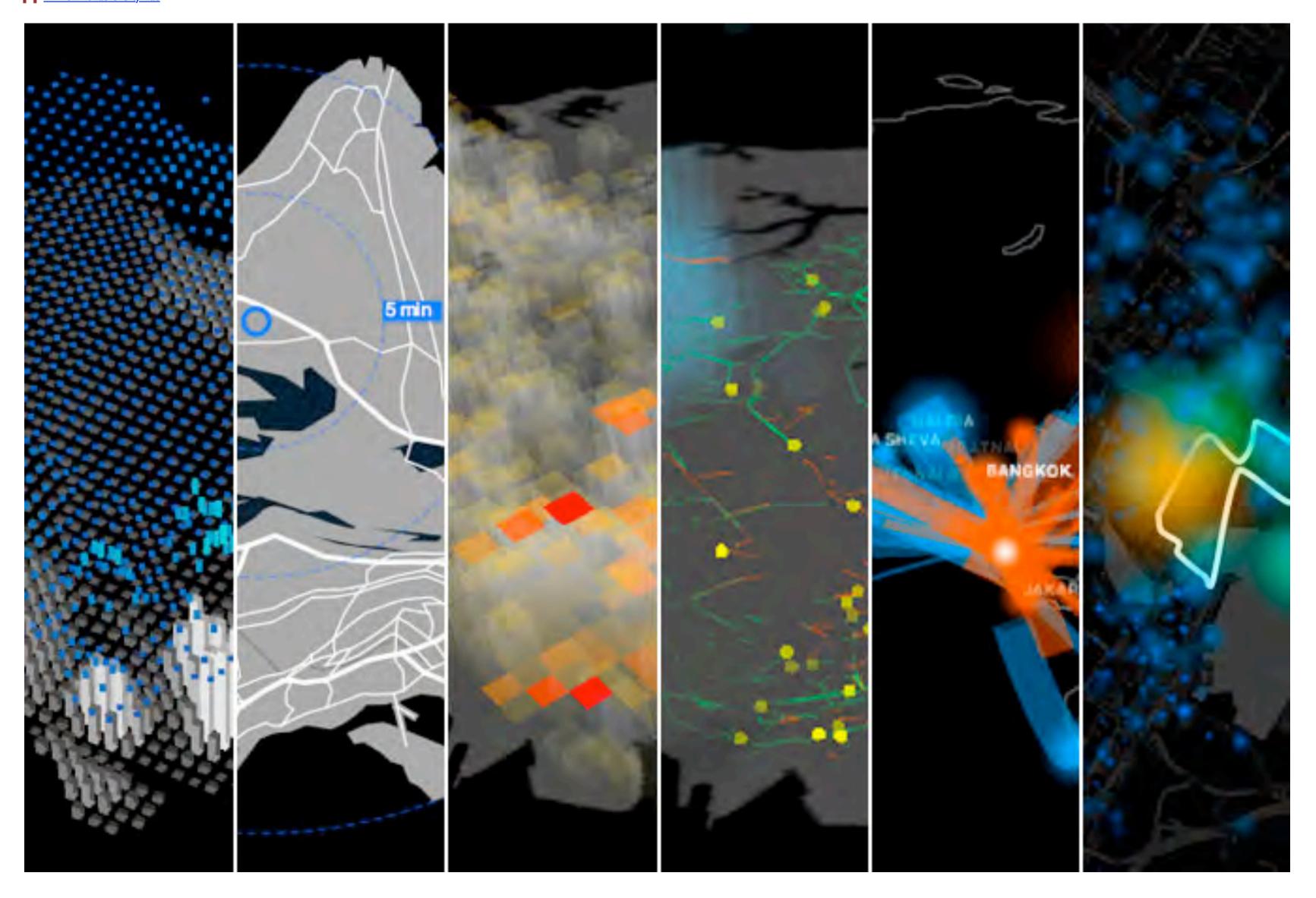
PisaPOOL 2016

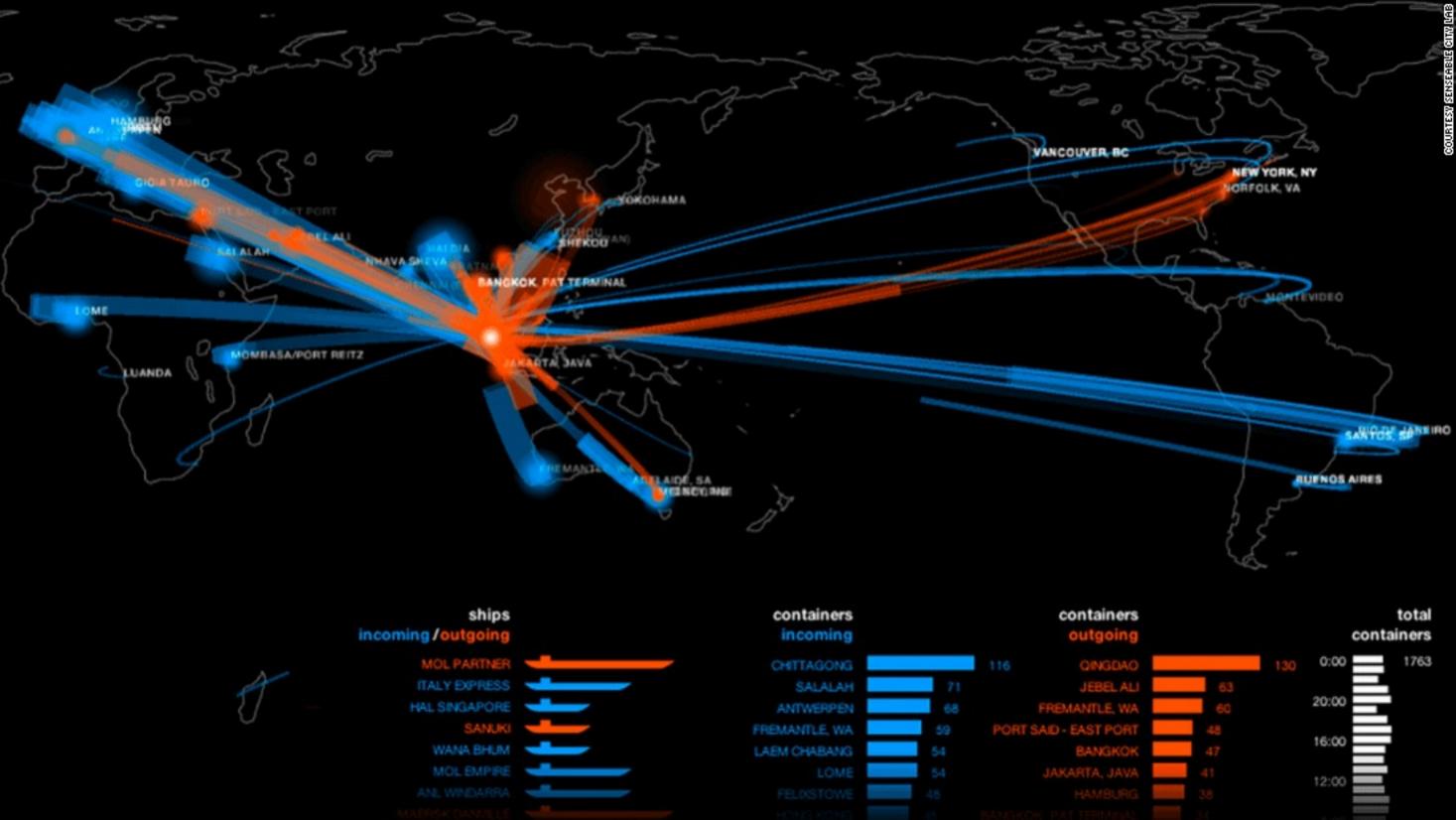


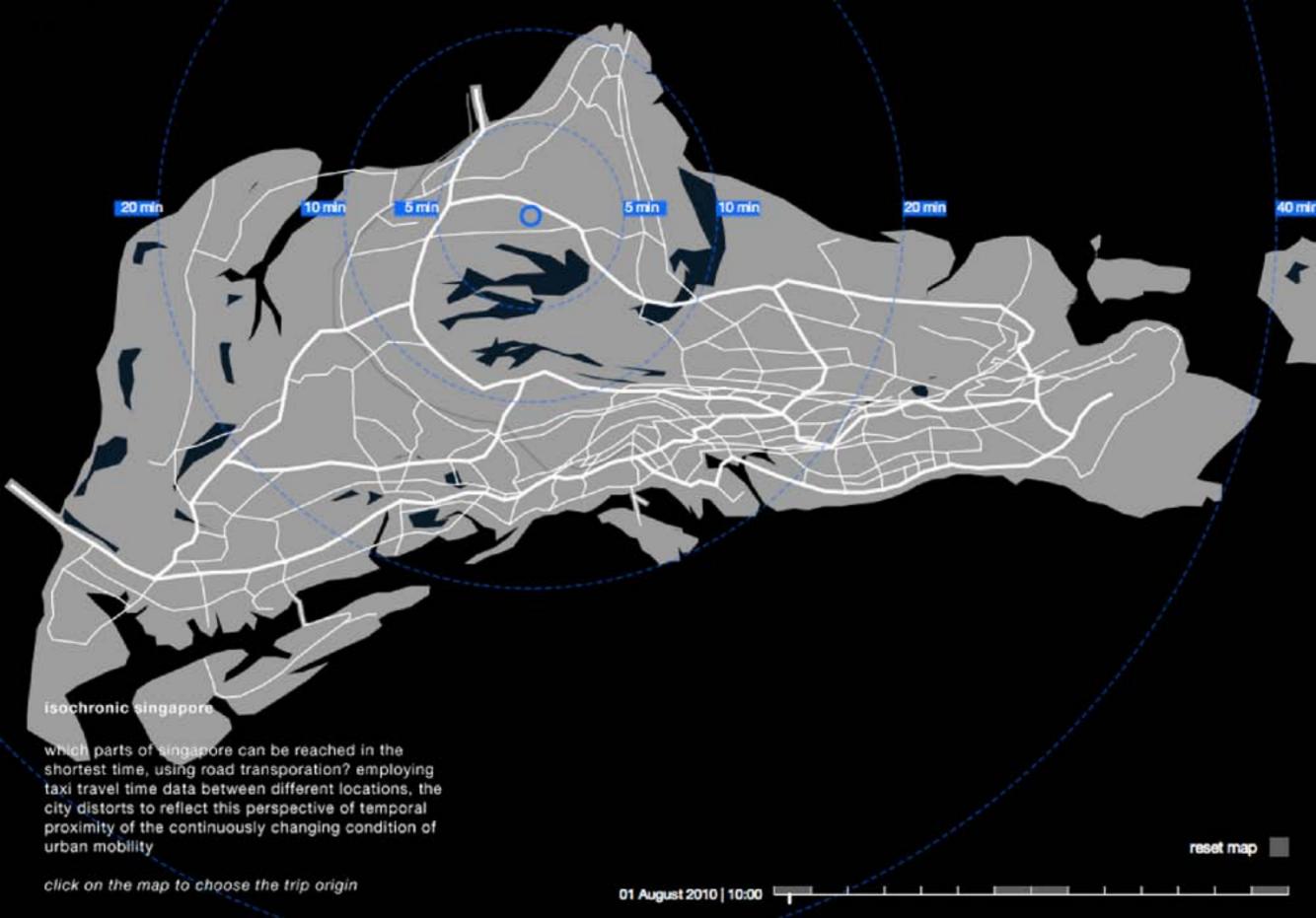
Urban Exposures 2016



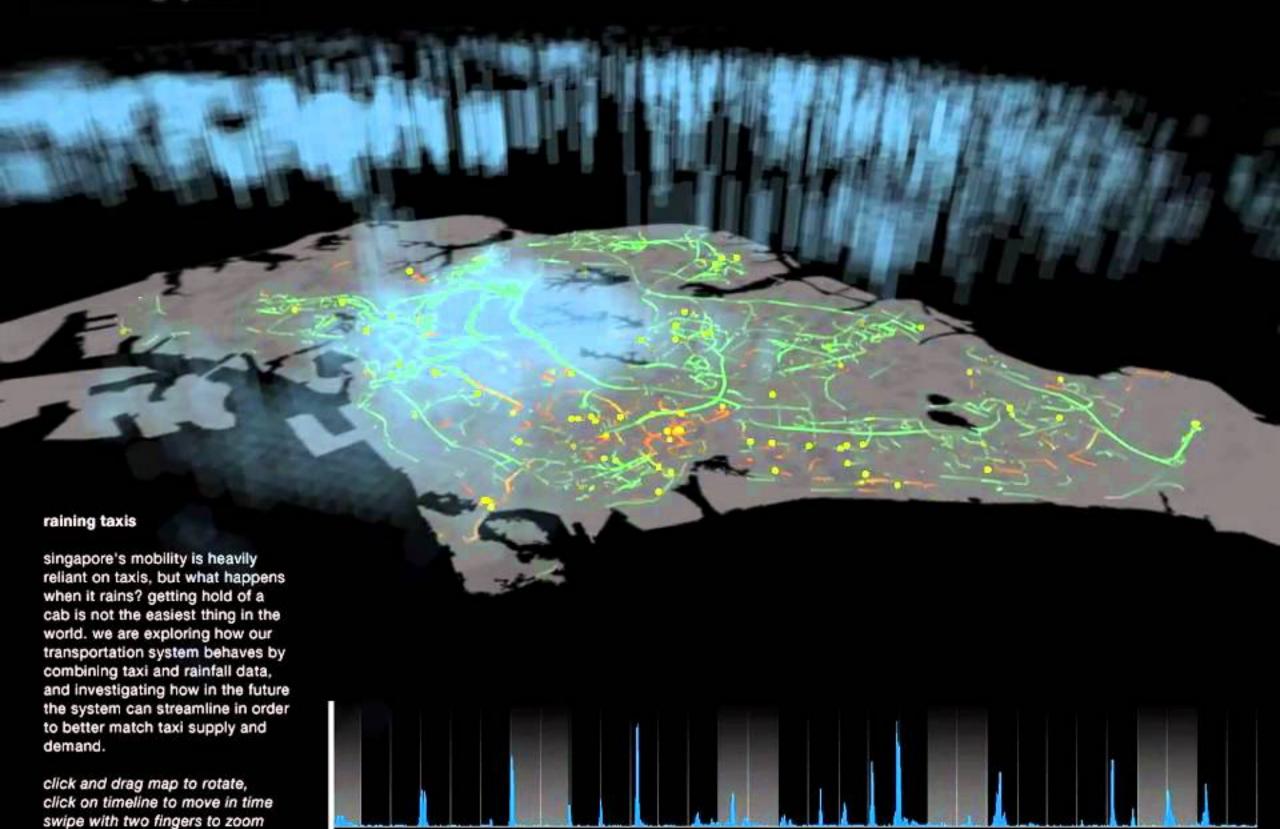
MIT SENSEable City Lab



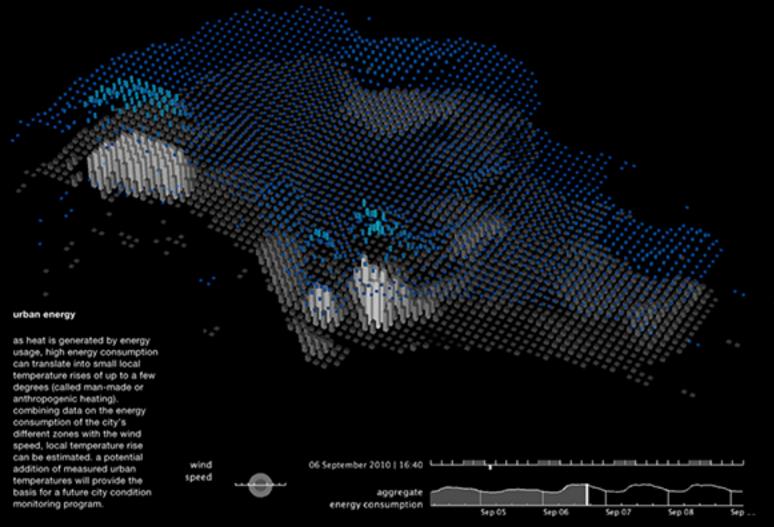






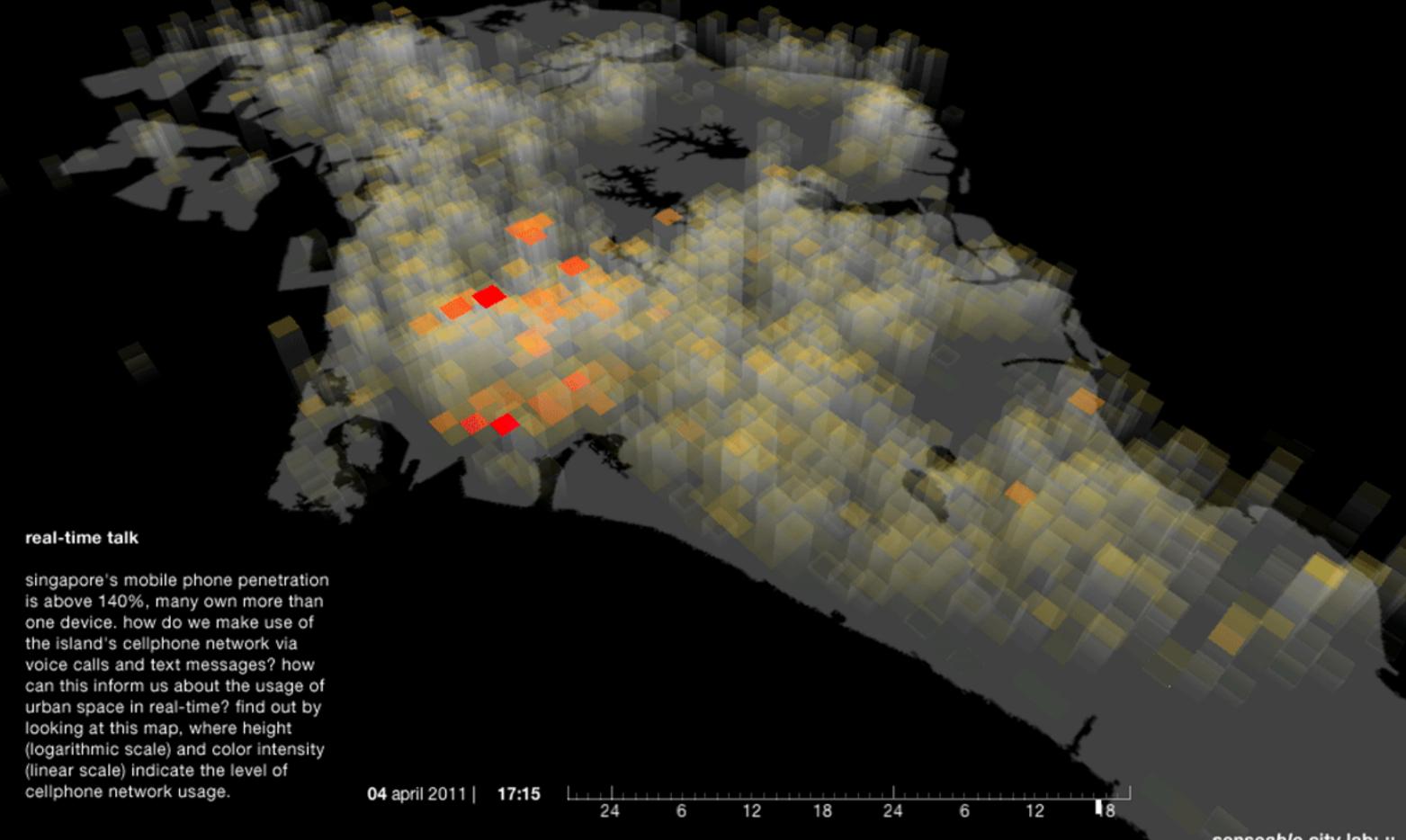


LIVE Singapore!



data sources: SP Services I NUS Dept. of Geography senseable city lab:..::

LIVE Singapore!



data sources SingTel

