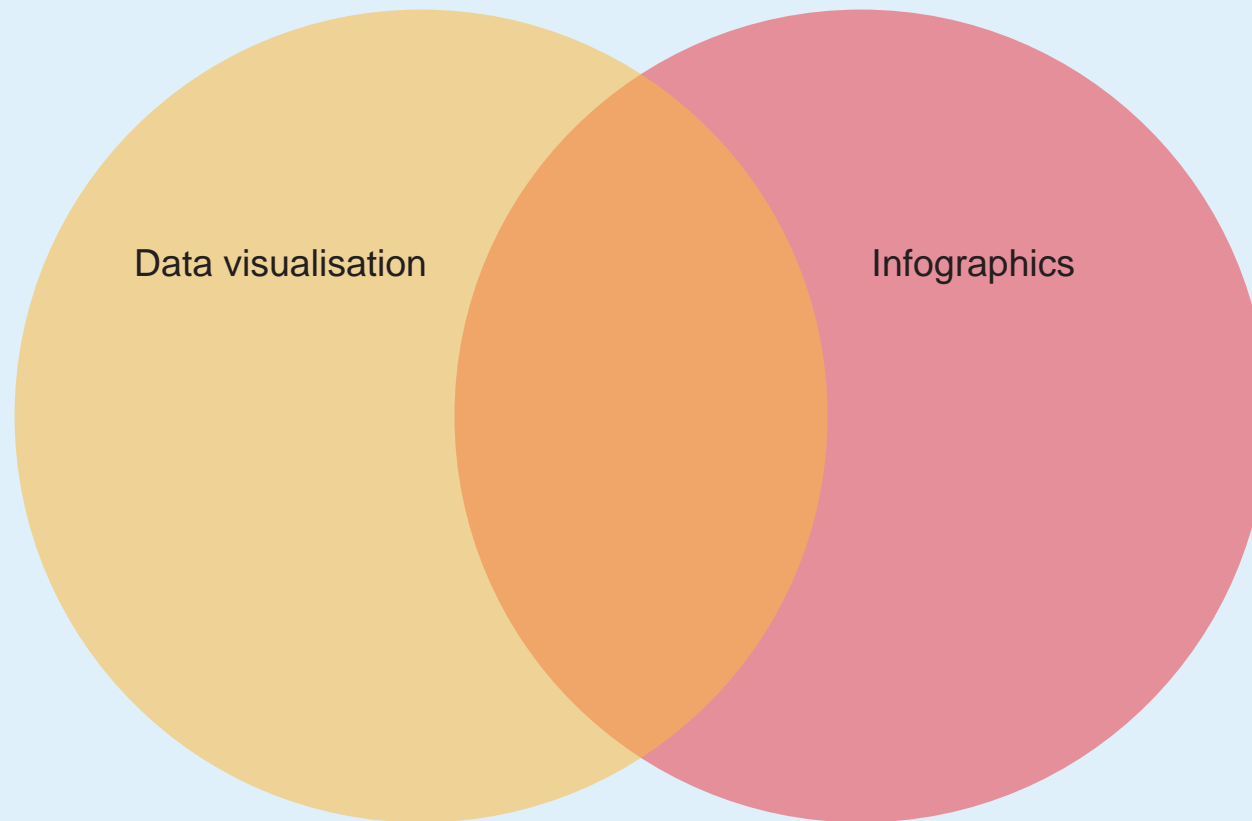


The secret behind infographics



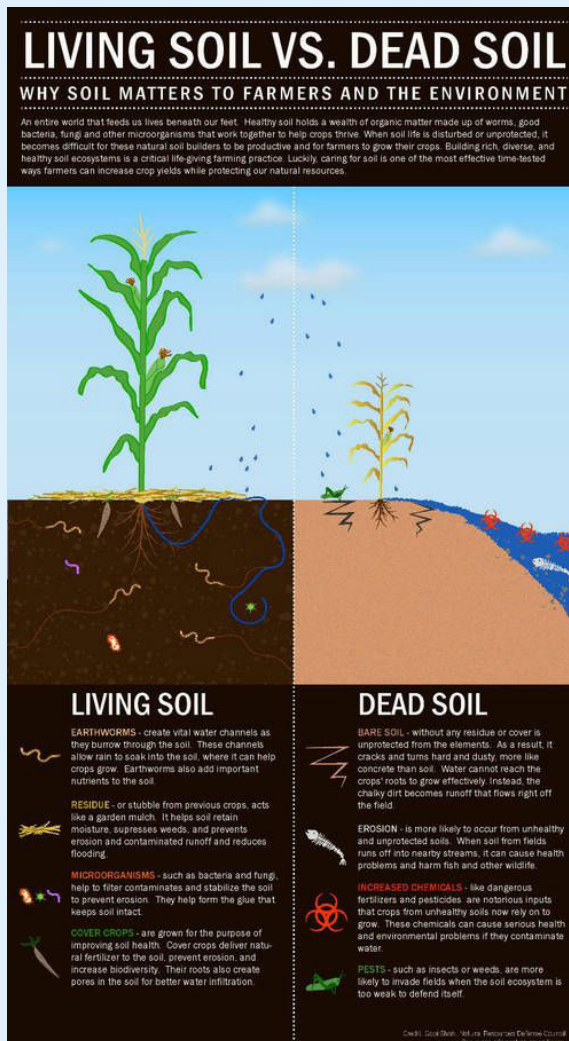
data visualisations vs. infographics:



similarities:

- They both seek order
- They both are meant to be informative.
- They are both visual representations of data.
- They convert data (usually numbers) into graphics.
- They can both be static, interactive or animated.

what is an infographic?



- generally created to tell or explain a specific story
- usually intended for a specific audience
- therefor Infographics are subjective.
- self contained and discrete
- it is information presented with context
- graphic design is obvious, as it will be designed for that certain audience,
- or to fit in with the style of a website/ publication
- content illuminated by illustrations, icons and other graphical flairs

As this is the case, it is usually necessary that each one be constructed by hand, although there are tools that are available to make them using templates.

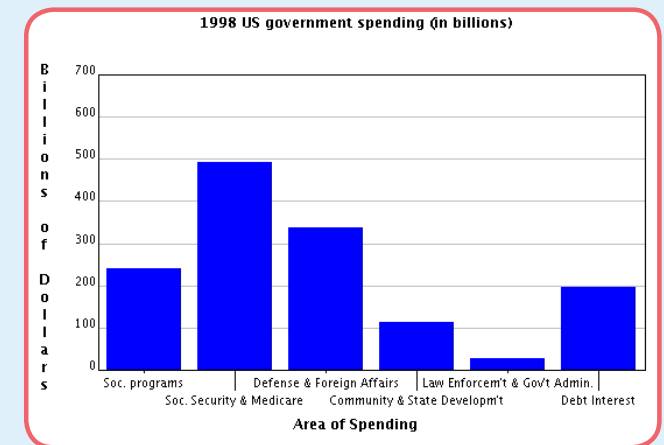
data visualisations vs infographics:

Website visits (000s)



■ Organic search
■ Email marketing
■ Social media
■ Referrals

- Data Visualisation can be both an item, and a discipline.
- quantifiable information in the form of numbers.
- data visualisations should be objective
- created for the purpose of making sense of the data,
- or to make data more accesible.
- likely to be created automatically
- transferable process to other data set
- Graphic design is often less important

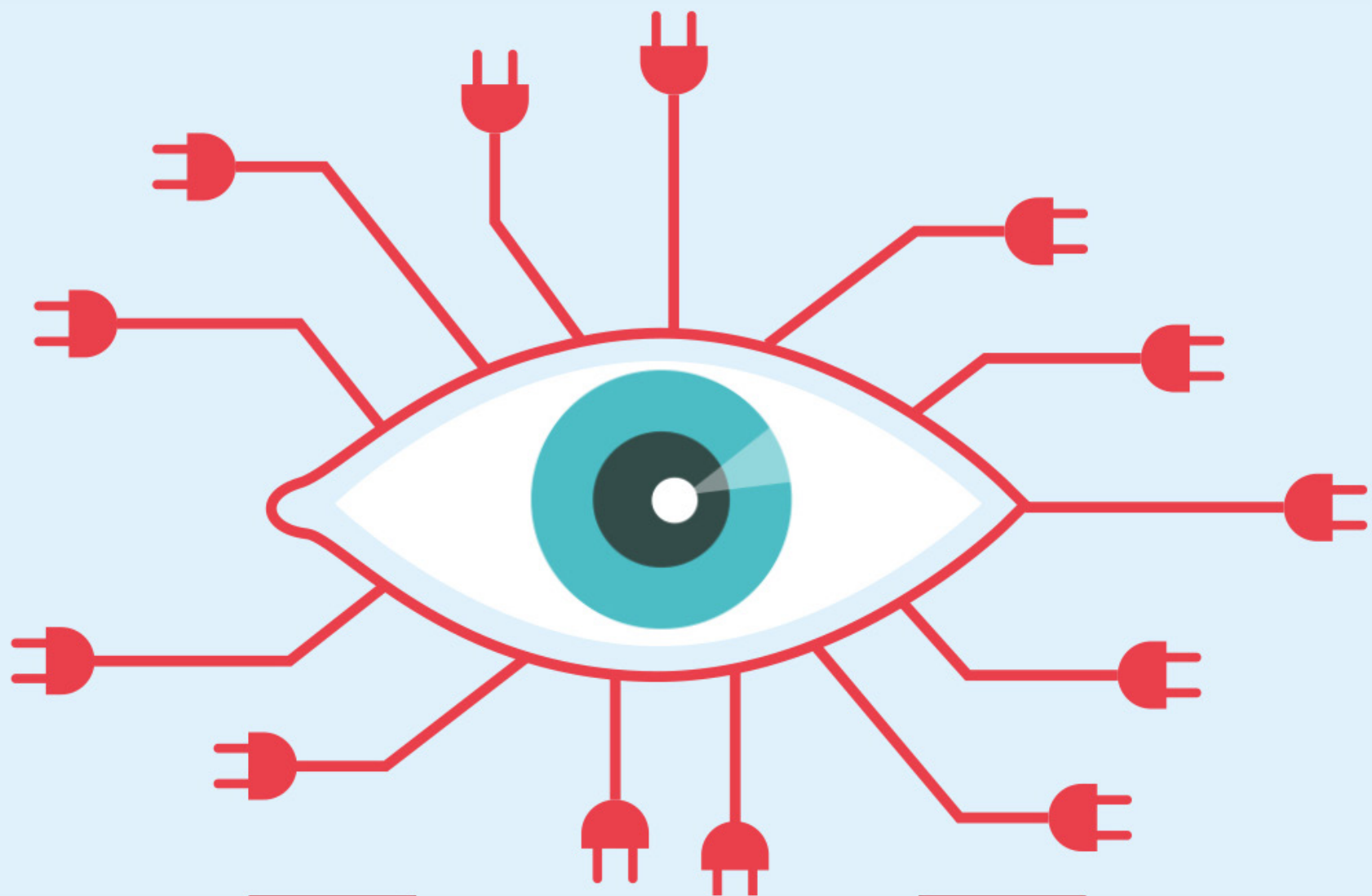


Why do infographics work



The power of images





This is because we are
'visually wired'



almost
50%
of your brain
is involved in
**visual
processing**



70%
of all your
**sensory
receptors**
are in your eyes



we can get
the sense of a
**visual
scene**
in less than
1/10 of a second

Thorpe, S., Fize, D. & Marlot, C. (1996). Speed of processing in the human visual system, Nature, Vol 381.

visual by neomam.com

It only takes us 150ms for a symbol to be processed + 100ms to attach a meaning to it

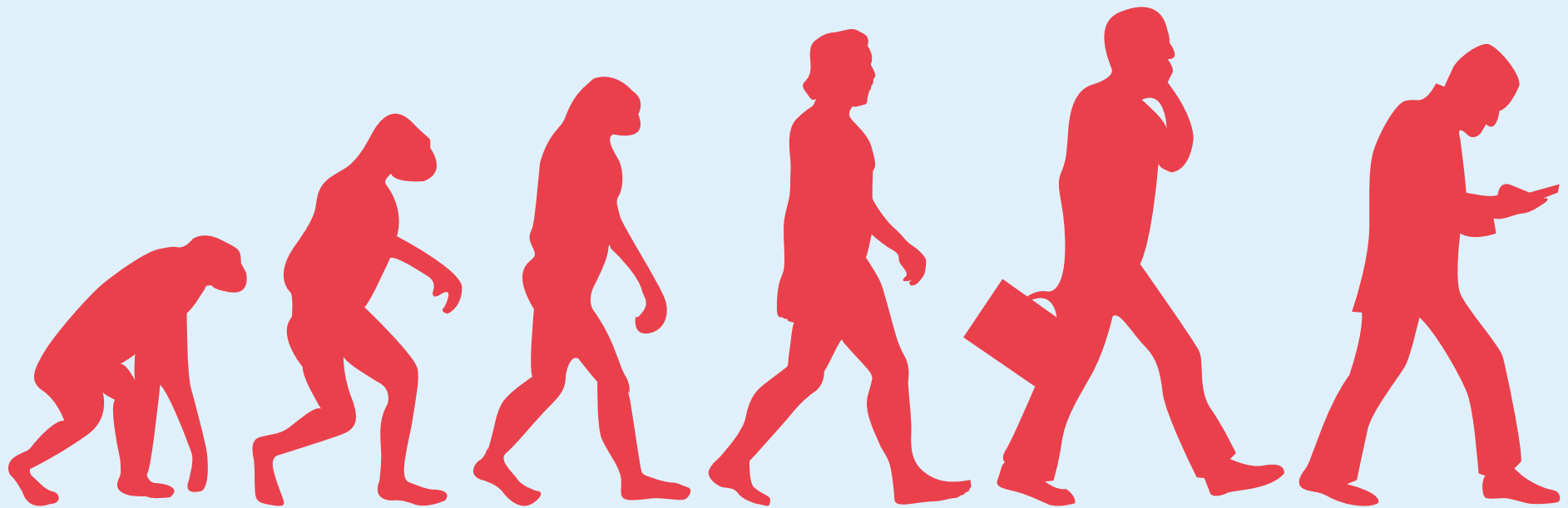


VS

While you are travelling down this road there is a chance that one or more rocks of varying size may fall from the slopes on one or both sides of you. You should be aware of this before you travel this way so that you are cautious of this particular type of hazard.

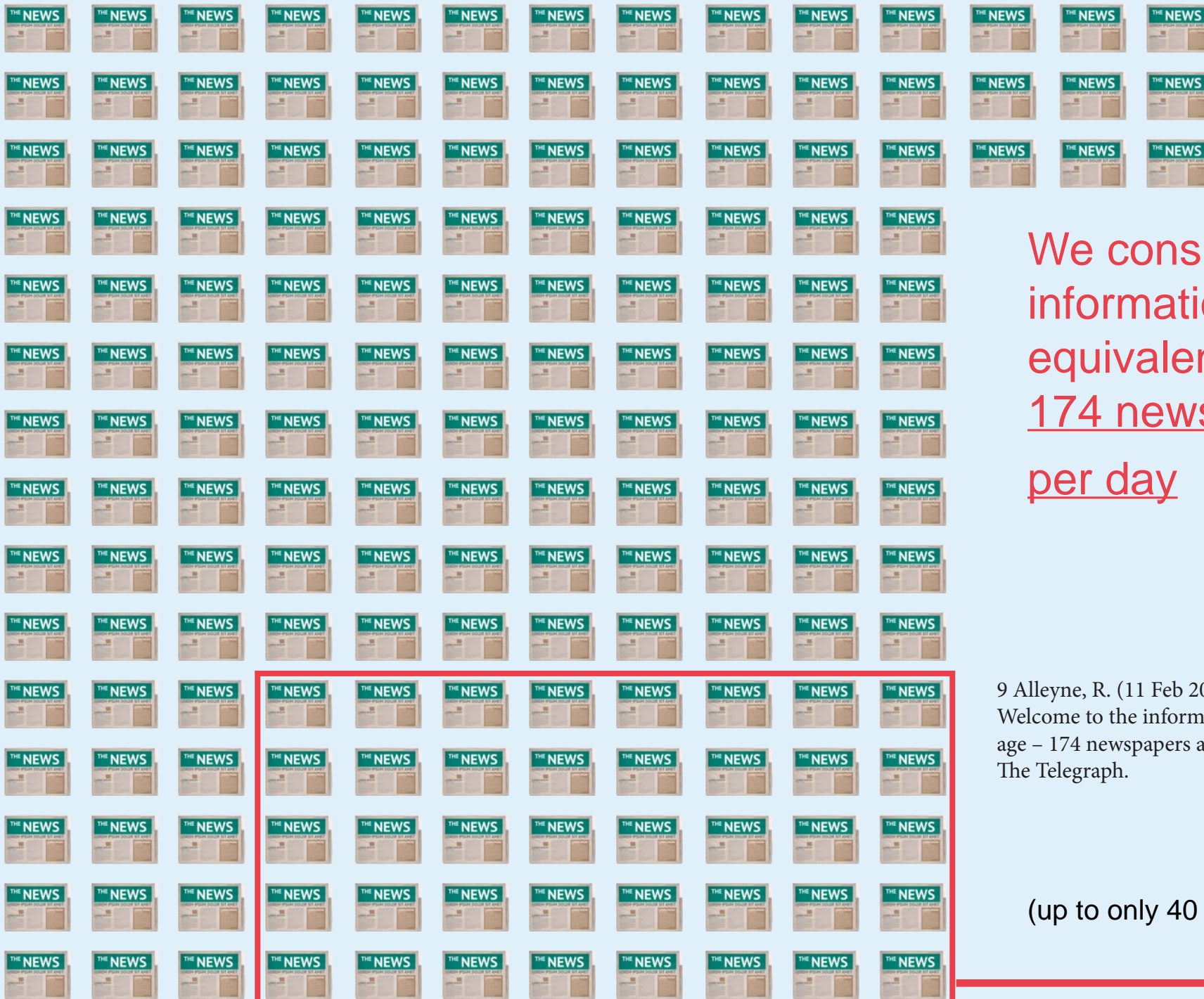
Holcomb, P. and Grainger, J. 2006. 'On the time course of visual word recognition'. *Journal of Cognitive Neuroscience*, 18.

Informavores



We're all informavores now, hunting down and consuming data as our ancestors once sought woolly mammoths and witchetty grubs."

- Rachel Chalmers



We consume
information
equivalent to
174 newspapers
per day

9 Alleyne, R. (11 Feb 2011).
Welcome to the information
age – 174 newspapers a day.
The Telegraph.

(up to only 40 newspapers in 1986)

Information overload



9 Alleyne, R. (11 Feb 2011). Welcome to the information age – 174 newspapers a day. The Telegraph.

10 Bohn, R. & Short, J. (2012). Measuring Consumer Information, International Journal of Communication, Vol 6.

11 Nielsen, J. (2008). How Little Do Users Read?

We receive
5x
as much information
today as we did
in 1986. ^[9]

34 gigabytes
or 100,500 words
– the amount of information
we consume outside of work
on an average day. ^[10]

On average
users only read
28%
of words per visit. ^[11]

Infographics counter information overload because...

They're more engaging



**Researchers found that colour visuals
increase the willingness to read by 80%!!**

12 Green, R. (1989). The Persuasive Properties of Color,
Marketing Communications.

visual by neomam.com

Easier to recall^[17]

People remember:

80%
of what they
SEE and DO

10%
of what they
HEAR

20%
of what they
READ



Nielsen, J. (2008). How Little Do Users Read?

visual by neomam.com

tips for great infographics

- what to ask
- what to do
- the importance of story telling
- language of context

How to make your own infographic?

What to ask

- What is the purpose?
- Where is the value?
- Why will people share it?
- How can I maximise that?

What to do:

- Visualise as much as possible to aid understanding
- Always have a clear hierarchy of information
- Explore and push boundaries

The design is to aid understanding & generate appeal

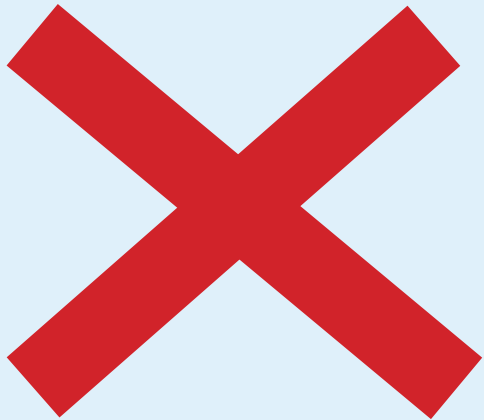
Visualise as much as possible to aid understanding



hierarchy of information

- Find your hook
- Which information do you want to emphasis
- Are there elements to be left out/added?
- Adjust the elements of the story you want to tell

Explore and push boundaries



Robotic templated design
Copy, paste, change the colour
“Do this one, but about giraffes.”



Trying new things
Creative, unusual approaches
Within an organised framework

The importance of story telling

- head to tail -

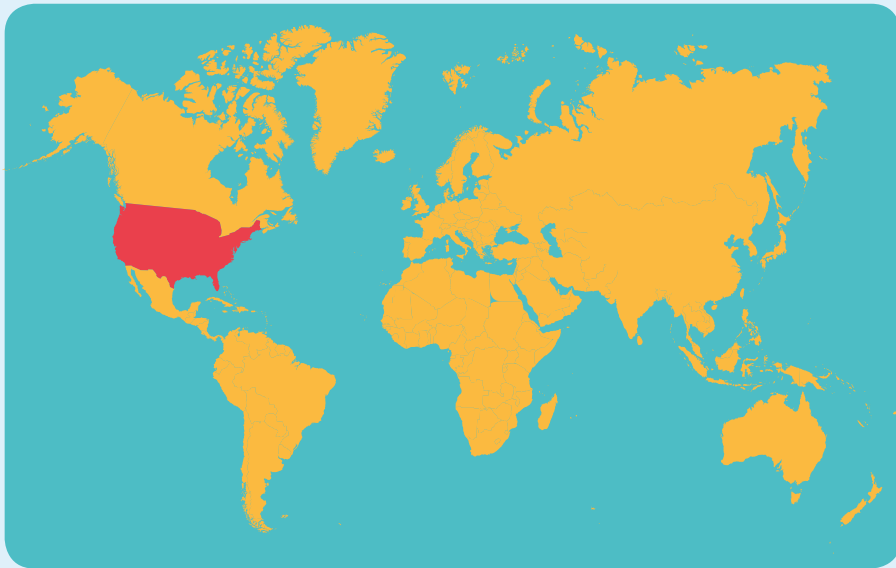
introduction / foundation

Ah-Ha!
The Main Event

conclusion / call-to-action

The language of context

2,267,233,742
global internet users



Approximately 311,591,917 total people in
the U.S.

2,267,233,742
global internet users



Approximately 7,009,000,000 people on
earth

how to create your own infographic

- choosing a format
- building a wireframe
- use simple design principles
- visualize the hook
- refinement and testing

1. choosing a format

PRACTICAL



Flowchart How-to



How to Guides



The Guide to...



World Maps / Countries That...



Illustrated How-Tos



Photo Guides

EDITORIAL



Visual Answer to a Question



Versus Infographic

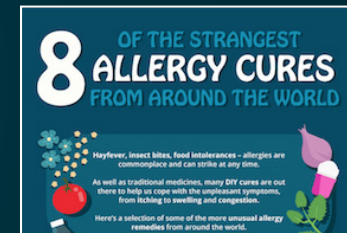


Statement with Proof

SOCIAL



50 Facts



Lists Using Illustrations



Visual Map

1. choosing a format

PRACTICAL



Flowchart How-to



World Maps / Countries That...



How to Guides



Illustrated How-Tos



The Guide to...



Photo Guides



How to **do** / **solve** / **answer** something



Intellectual **insight**



Provide **knowledge**

1. choosing a format



Timely - responds to a calendar event



Presents **intelligent reputable data**



Sharer appears to have **knowledge**.
Refer to social proof concept in
Jonah Berger's 'Contagious'.

EDITORIAL



Visual Answer to a Question



Versus Infographic



Statement with Proof

1. choosing a format



Creates a **visual buzz**



Quirky content & **dynamic, engaging design**

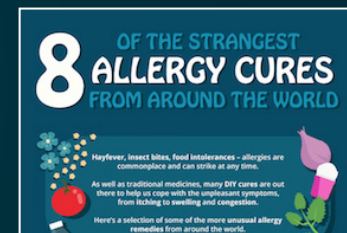


Provides sharer with '**cool factor**'

SOCIAL



50 Facts



Lists Using
Illustrations



Visual Map

1. choosing a format

Visual answer to a question



Purpose

- Trigger for editorial calendar
- Timely (not evergreen)

Focus

- Visual storytelling
- Keep interest throughout in content and design
- Use clear sections to aid user navigation
- Analytical and data-dependent – needs to be easy to understand
- Triggers different editorial approach in the eyes of journalists by posing questions

1. choosing a format

Statement with proof



Purpose

- Based on a topical issue
- Sharer looks knowledgeable

Focus

- Evidence will be from high-end sources
- Look viable, believable, scientific
- Hypothetical situations based on existing data
- Build up the case visually alongside content
- Visuals are to enhance understanding, not cloud it - allow journalists to create their own angle

1. choosing a format

Visual map



Purpose

- Map-orientated
- Highly social

Focus

- All data requires top map for context
- Detail below
- In contrast to 'World Maps', where a specific location/country/region is featured, rather than a global view
- Narrow/niche topic which appeals to a specialized community
- Combination of photo and illustration works well

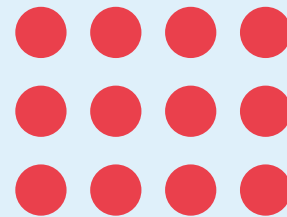
2. building a wireframe

- lay out your concept
- make a sketch of the hierarchy and lay-out
- use this step to have your concept and ideas reviewed

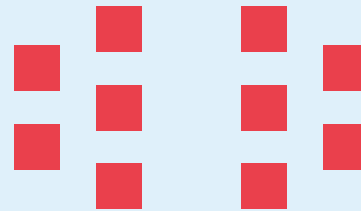
3. clear design

basic design principles

- unity - harmony



- balance



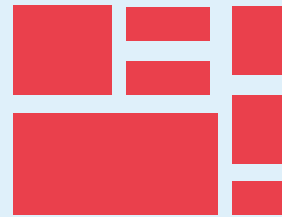
- hierarchy



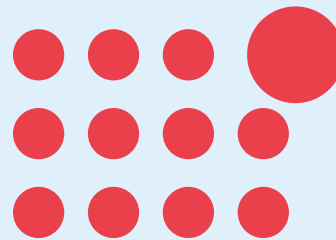
3. clear design

basic design principles

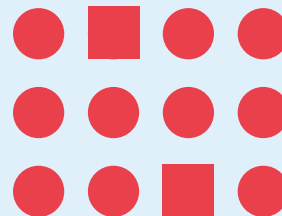
- scale - proportion



- dominance - emphasis



- similarity - contrast



3. clear design colour

- limit your colour palette
- stick to 3 - 6 colours to grab attention
- make use of available tools (<http://www.colourlovers.com>)



3. clear design

icons, visualisations

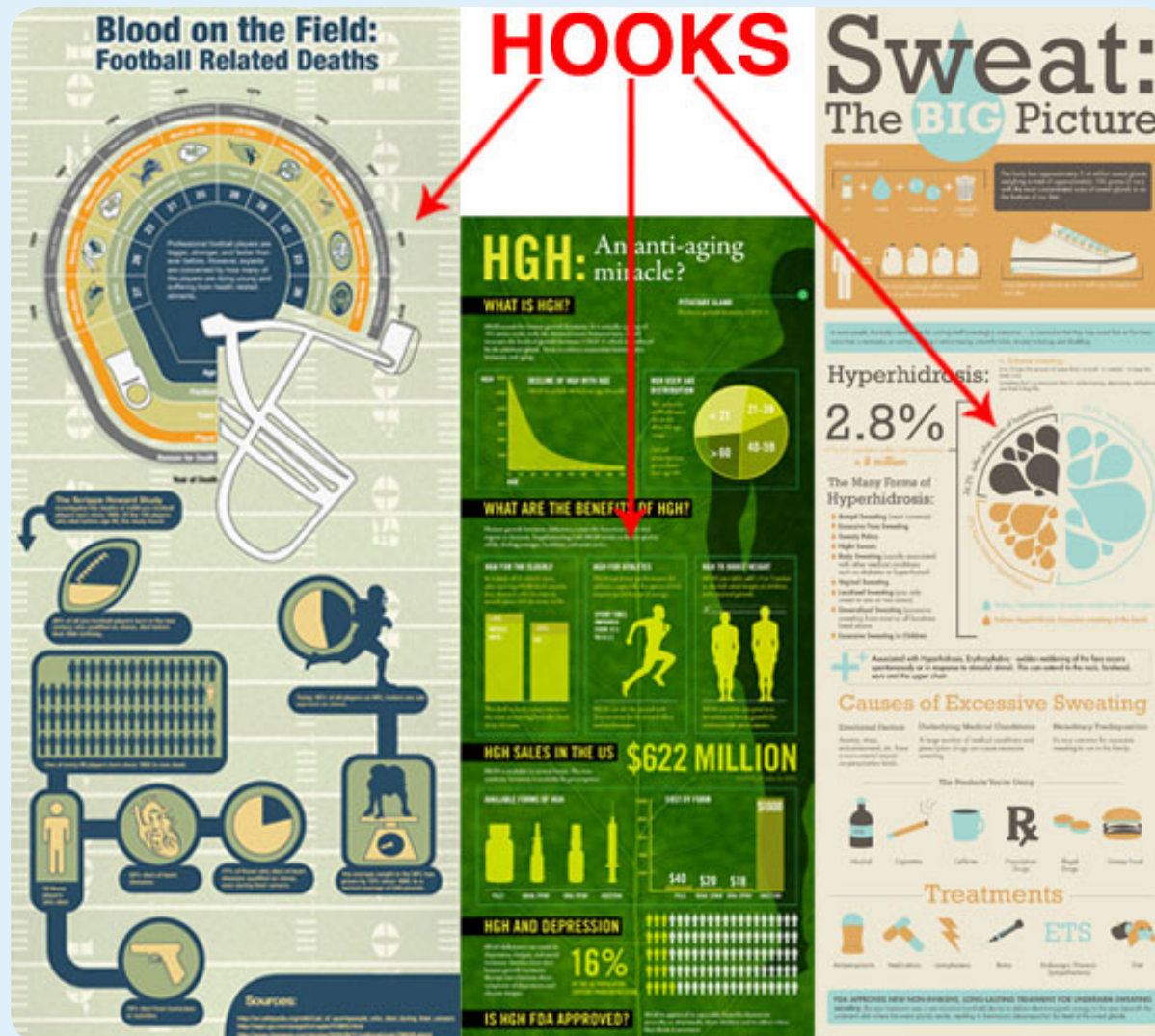
- make sure your icons and visualisations are easily read
- make use of repetition
- try to work with vector files as much as possible *(.svg .ai .eps)
- make great use of graphic visualisation tools

3. clear design fonts

Fonts are a great way to spice up your infographic:

- think about (contrast in) style,size, weight
- dress for the occasion
- avoid small wimpy differences

4. visualise the hook!



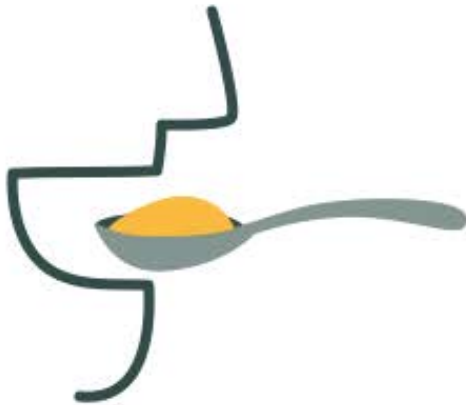
5. refinement and testing

- Discuss your infographic with others,
does it convey the right message,
is the infographic clear?
- Make a test-print,
think about how do you want to publish.
think about file size
see if everything is in place,
clean up the design from small errors

sources

- 1 Google Ngram Viewer.
 - 2 Google Trends.
 - 3 Zacks, J., Levy, E., Tversky, B., Schinao, D. (2002). Graphs in Print, Diagrammatic Representation and Reasoning, London: Springer-Verlag.
 - 4 Merieb, E. N. & Hoehn, K. (2007). Human Anatomy & Physiology 7th Edition, Pearson International Edition.
 - 5 Merieb, E. N. & Hoehn, K. (2007). Human Anatomy & Physiology 7th Edition, Pearson International Edition.
 - 6 Semetko, H. & Scammell, M. (2012). The SAGE Handbook of Political Communication, SAGE Publications.
 - 7 Thorpe, S., Fize, D. & Marlot, C. (1996). Speed of processing in the human visual system, Nature, Vol 381.
 - 8 Holcomb, P. & Grainger, J. (2006). On the Time Course of Visual Word Recognition, Journal of Cognitive Neuroscience, Vol 18.
 - 9 Alleyne, R. (11 Feb 2011). Welcome to the information age – 174 newspapers a day. The Telegraph.
 - 10 Bohn, R. & Short, J. (2012). Measuring Consumer Information, International Journal of Communication, Vol 6.
 - 11 Nielsen, J. (2008). How Little Do Users Read?
 - 12 Green, R. (1989). The Persuasive Properties of Color, Marketing Communications.
 - 13 Dowse, R. & Ehlers, M. (2005). Medicine labels incorporating pictograms: Do they influence understanding and adherence?, Patient Education and Counseling, Vol 58, Issue 1.
 - 14 Levie, W. J. & Lentz, R. (1982). Effects of text illustrations: A review of research, Educational Communication and Technology.
 - 15 Wharton School of Business. 'Effectiveness of Visual Language'.
 - 16 McCabe, D. & Castel, A. (2008). Seeing is believing: The effect of brain images on judgments of scientific reasoning, Cognition 107.
 - 17 Lester, P. M. (2006). Syntactic Theory of Visual Communication.
- See more at: <http://neomam.com/interactive/13reasons/#sthash.NvBoDzrr.dpuf>

Infographics are:



EASY TO DIGEST

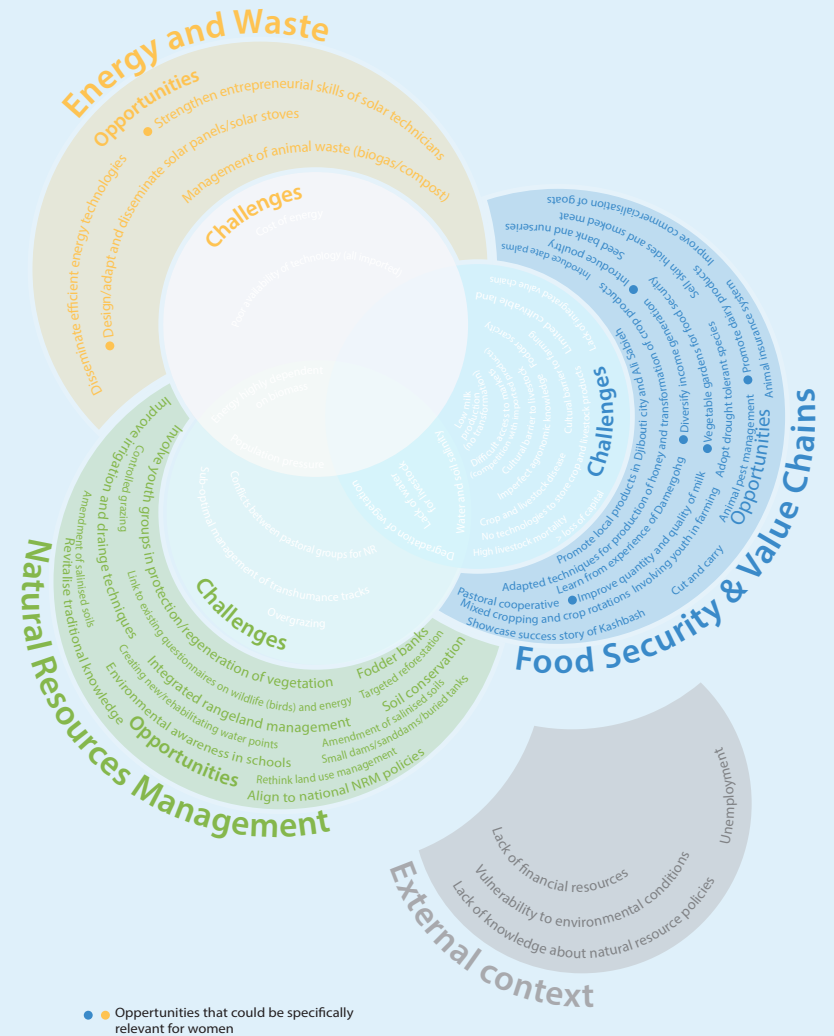
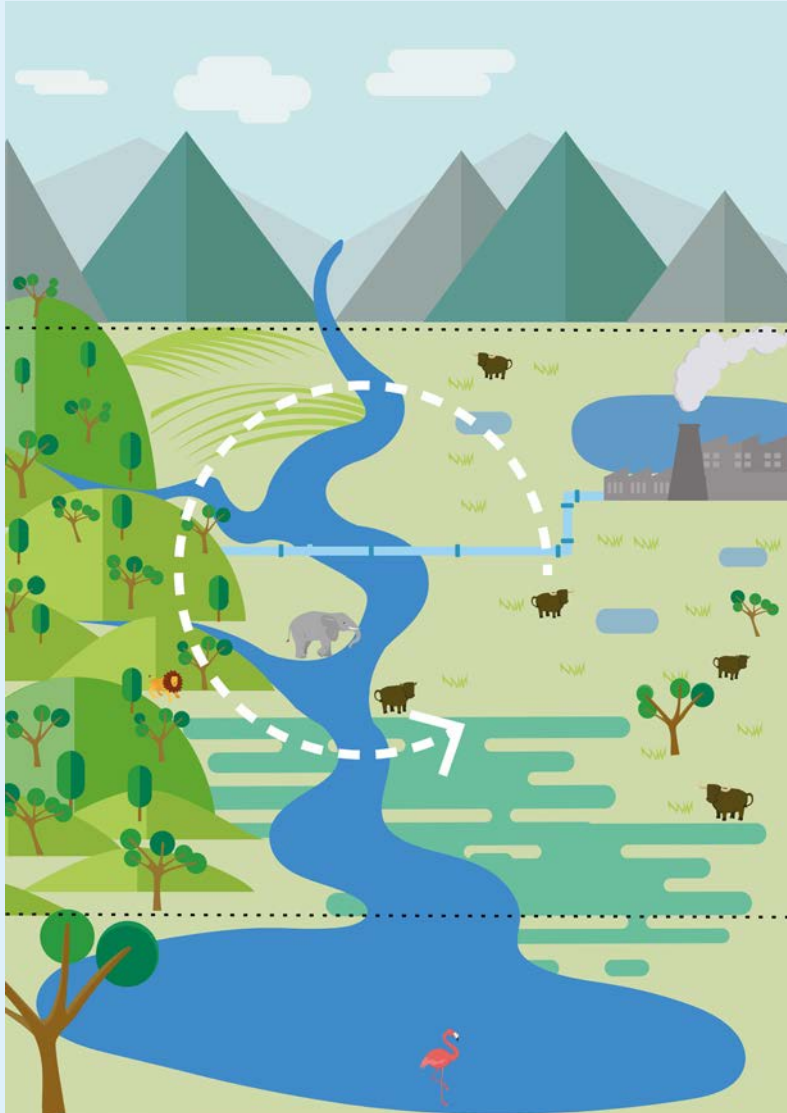


FUN TO SHARE

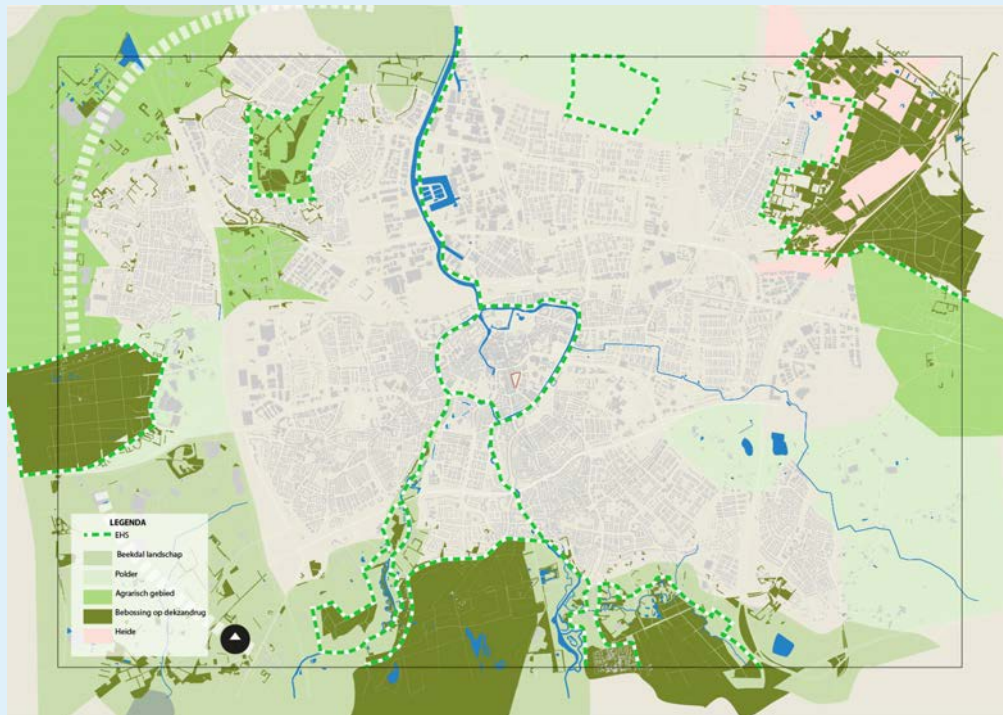


**AND EXTREMELY
ENGAGING**

my work - dataviz.



my work - urban design



my work - urban design



my work - urban design

