

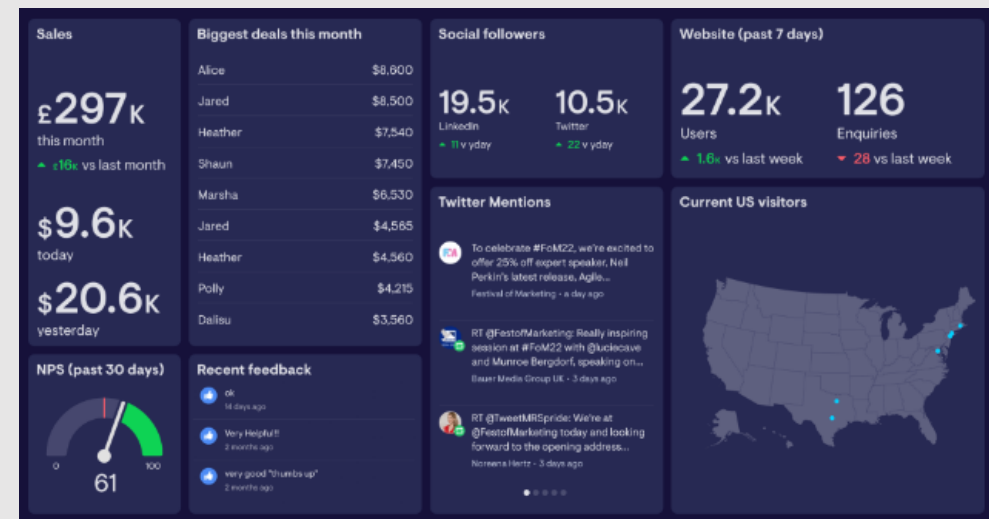
# Dashboards

Using Streamlit

# The crown of your data science work

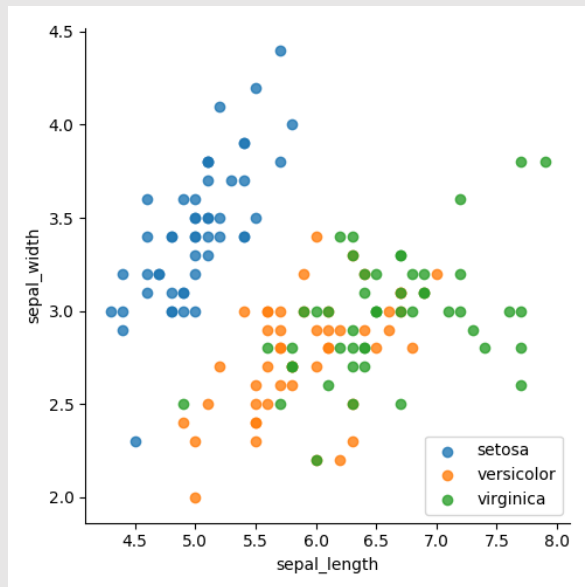
- Stakeholders usually don't 'speak' code
- Data Science project loses value if not communicated properly

```
31 def __init__(self, settings):
32     self.file = None
33     self.fingerprints = set()
34     self.logdupes = True
35     self.debug = debug
36     self.logger = logging.getLogger(__name__)
37     if path:
38         self.file = open(os.path.join(path, "requests.json"),
39                         "a")
40         self.file.seek(0)
41         self.fingerprints.update(self.read())
42
43 @classmethod
44 def from_settings(cls, settings):
45     debug = settings.getbool("DEBUG", False)
46     return cls(job_dir(settings), debug)
47
48 def request_seen(self, request):
49     fp = self.request_fingerprint(request)
50     if fp in self.fingerprints:
51         return True
52     self.fingerprints.add(fp)
53     if self.file:
54         self.file.write(fp + os.linesep)
55
56 def request_fingerprint(self, request):
57     return request_fingerprint(request)
```



# The crown of your data science work

- Static visuals provide a fixed view.
- Dashboards offer interactivity: explore the data.
- Real-time update show the most recent data and insights.



# Many tools



- Microsoft integration
- Less technical
- Support & scalability













- Intuitive drag-and-drop interface
- Strong data visualization capabilities



- Python centric
- Quick prototyping
- Supports ML models

# The psychology of visualization

| System 1           |                                                                                       | System 2          |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|
| Fast               |    | Slow              |    |
| Subconscious       |    | Conscious         |    |
| Automatic          |    | Effortful         |    |
| Everyday Decisions |  | Complex Decisions |   |
| Error Prone        |  | Reliable          |  |

# The Economist

Iran's dangerous game

Lessons from a Wall Street titan

Why rent controls are wrong-headed

Goddess of the Taiwan Strait

SEPTEMBER 21ST-27TH 2019

## The climate issue

1850

1900

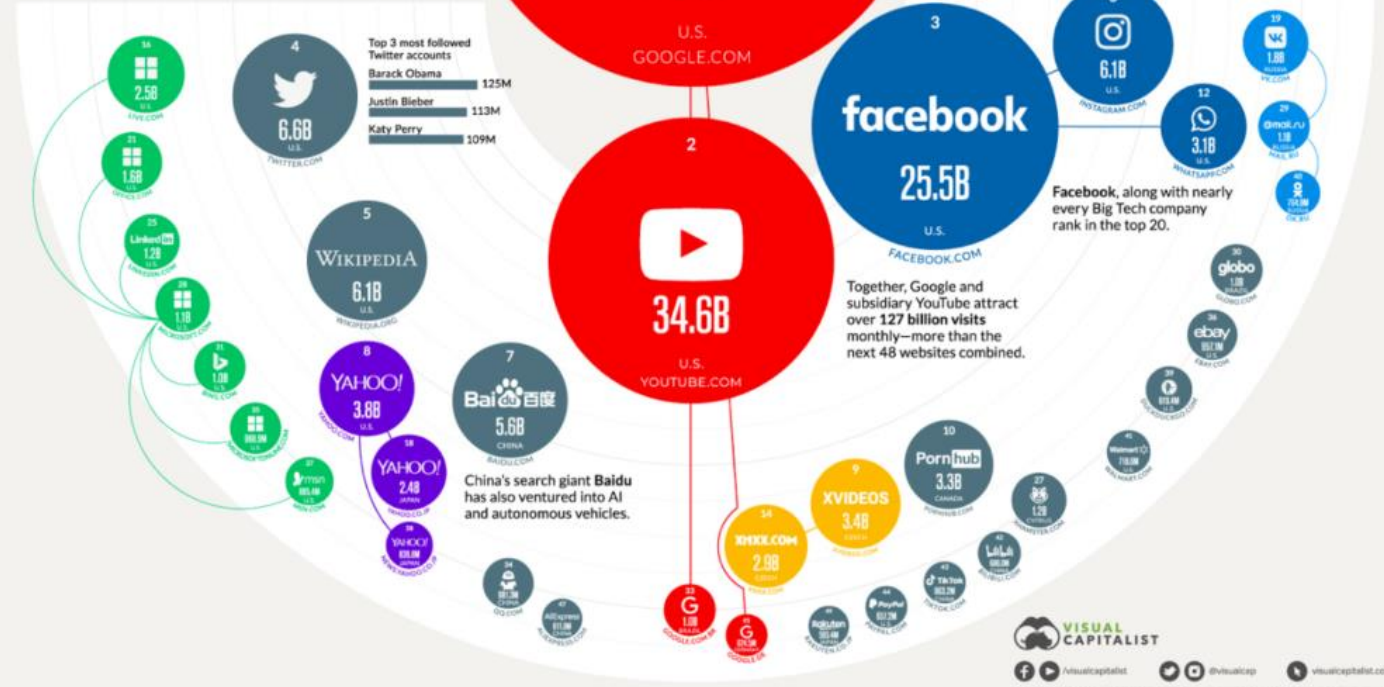
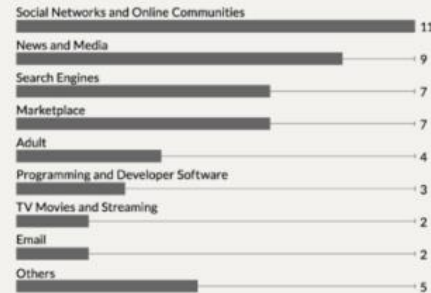
1950

2000

# THE WORLD'S Top 50 Websites

Below, we show the key players—from Google to Twitter—that currently dominate the Internet.

## BREAKDOWN BY CATEGORIES (GLOBAL, NOV 2020)



SOURCE: SIMILARWEB

## HOW TO READ THIS



Amazon-owned Twitch attracts 1 billion monthly visitors as the most popular gaming site worldwide.

With explosive growth, newcomer Zoom surpasses Netflix, LinkedIn, and Reddit in monthly visitors.

Since 2019, Instagram's monthly visitors have jumped from 3.2 billion to 6.1 billion.

Together, Google and subsidiary YouTube attract over 127 billion visits monthly—more than the next 48 websites combined.



COLLABORATORS RESEARCH + WRITING: Dorothy Neubold | ART DIRECTION + DESIGN: Joppe Ma

NEXT AMERICA

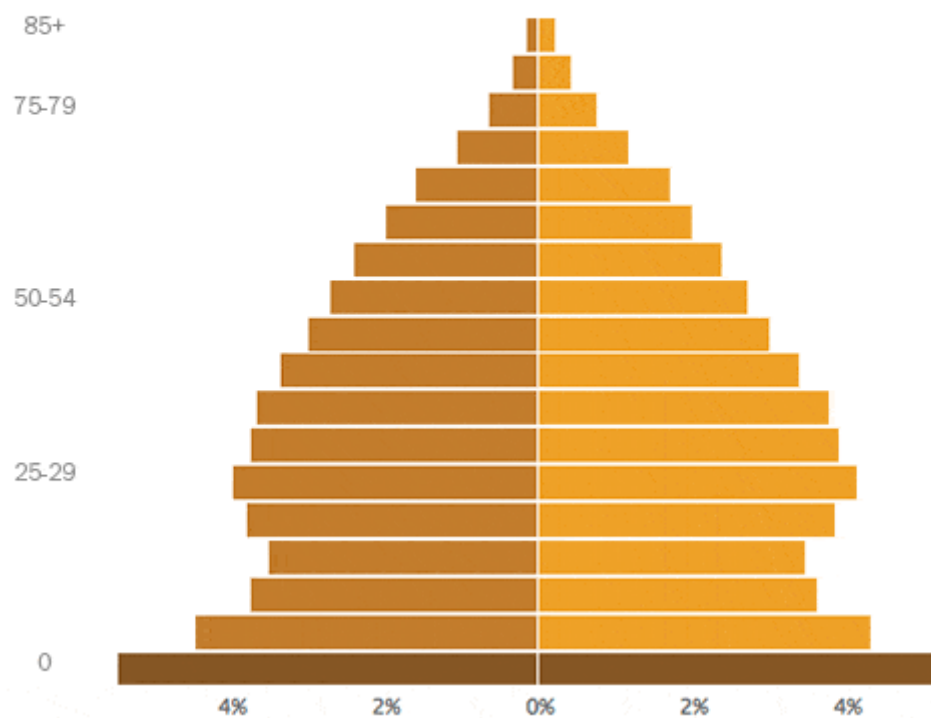
*Percent of U.S. Population by Age Group, 1950-2060*

■ Baby Boomers

MALE

1950

FEMALE



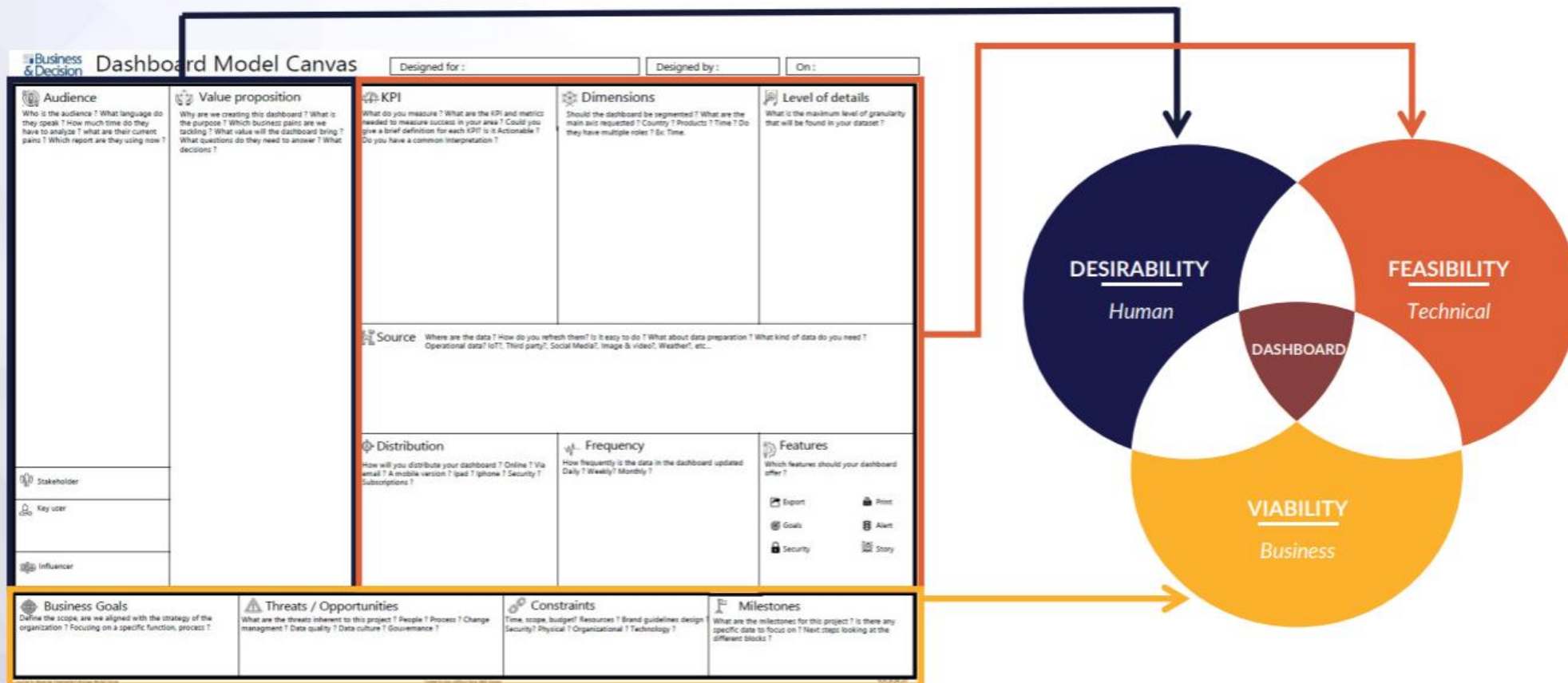
PEW RESEARCH CENTER





# 1. CANVAS WORKSHOP

Business&Decision developed, based on its reporting and dashboarding experience, a unique methodology that allows the collection of reporting requirements with Design Thinking methodology completely aligned with the previously presented project strategy.



# Try it yourself!

In the next 30 minutes:

- Use your own dataset.
- Create a dashboard using Streamlit to explore your dataset or tell the underlying story of your data.
- Showcase your dashboard afterwards.

If you don't have a dataset yet you can pick one using the MADS dataloading package.