



Master Lean and Impactful Business Analytics

Learn How to Design, Build, Run, and Optimize Business
Analytics

Advanced visualization

Advanced Visualization Helps Our Senses Understand Complexity

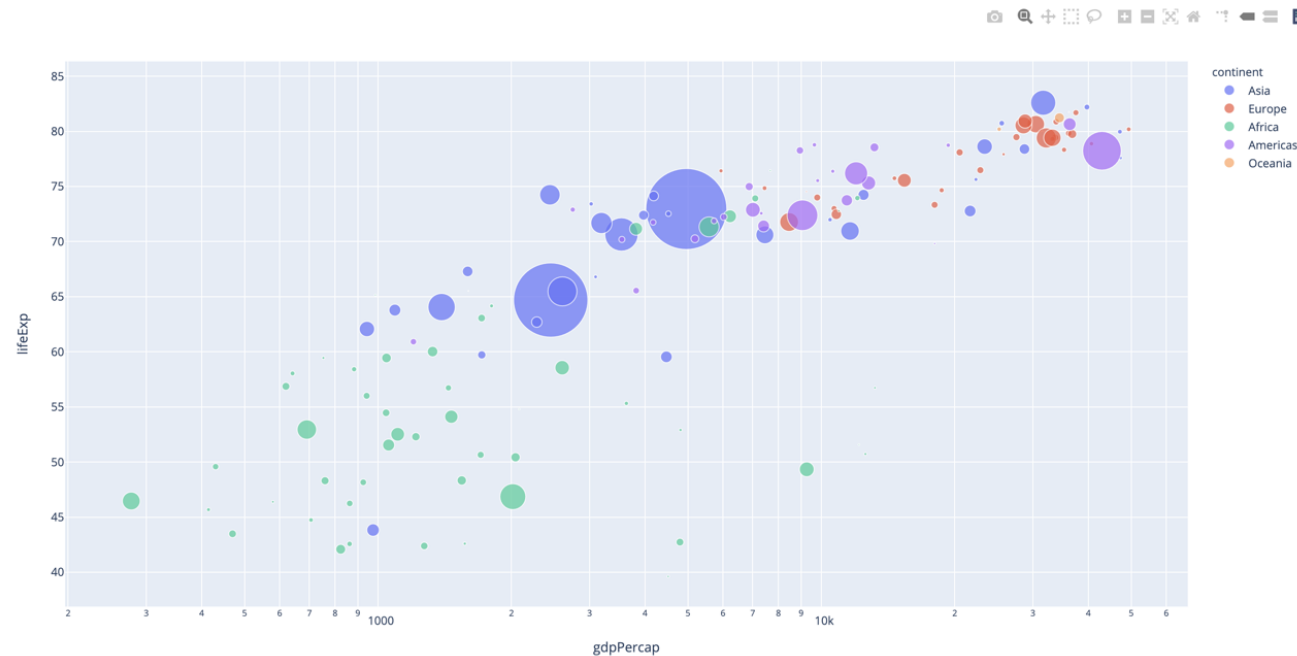
Advanced Visualization

It is important in any data project that all the information discovered is communicated to all stakeholders. Data visualisation is one form of this communication. As humans, we are generally very visual creatures and we tend to retain visual information better than non-visual information.

Advanced visualisations allow us to express complex ideas and information in a simple way.

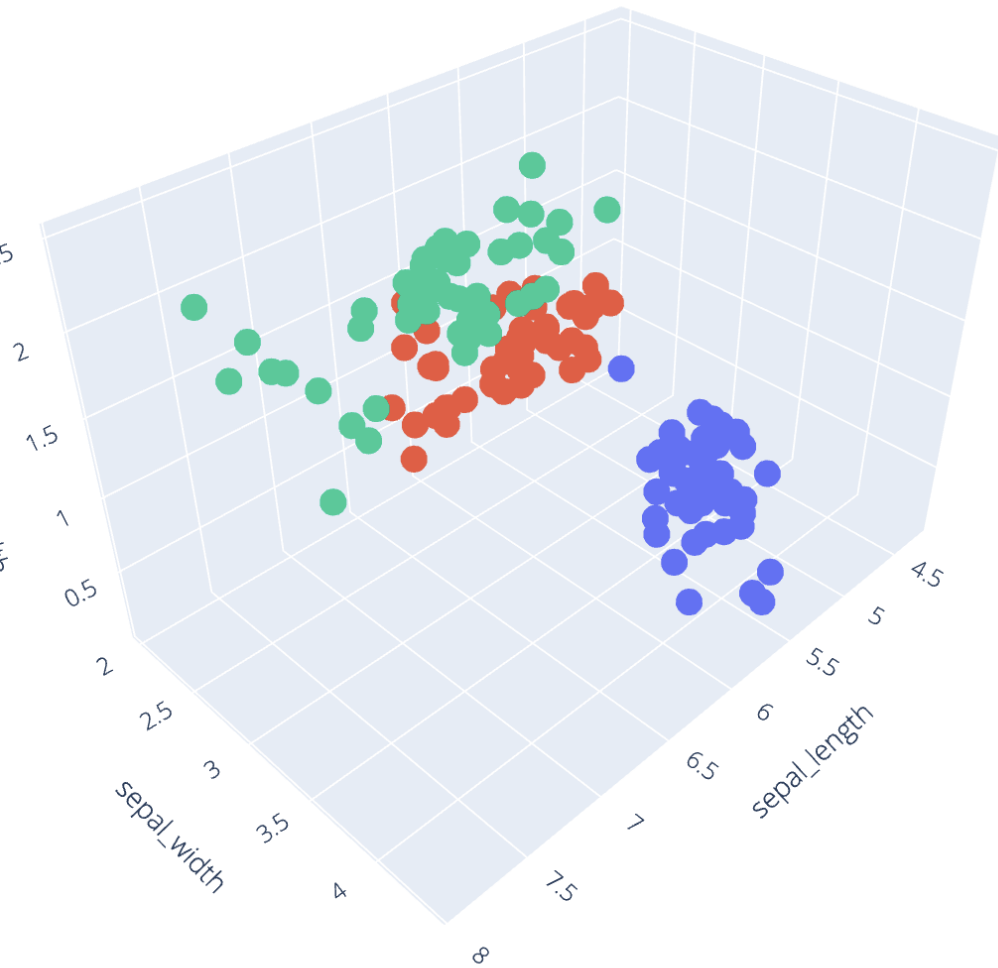
Have you ever looked at all 5 dimensions at the same time?

We can use techniques such as point size, colour filters, point shapes to express multidimensional information on a 2D scatter plot.



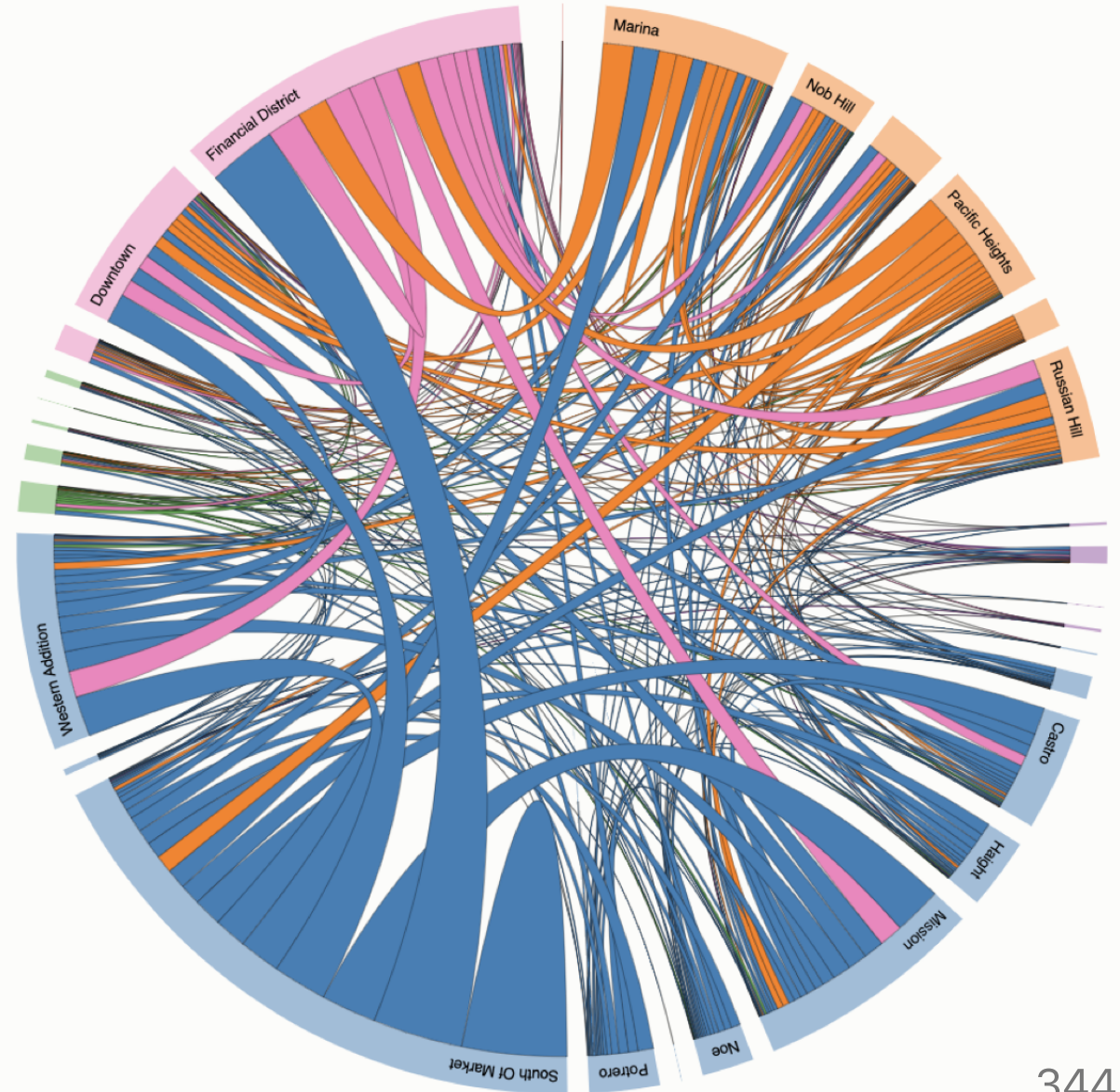
Visualising clusters using 3D graphs

We can use 3D graphs to understand how clusters are distributed in a given set of parameters.



Chord Diagram - Traffic Uber

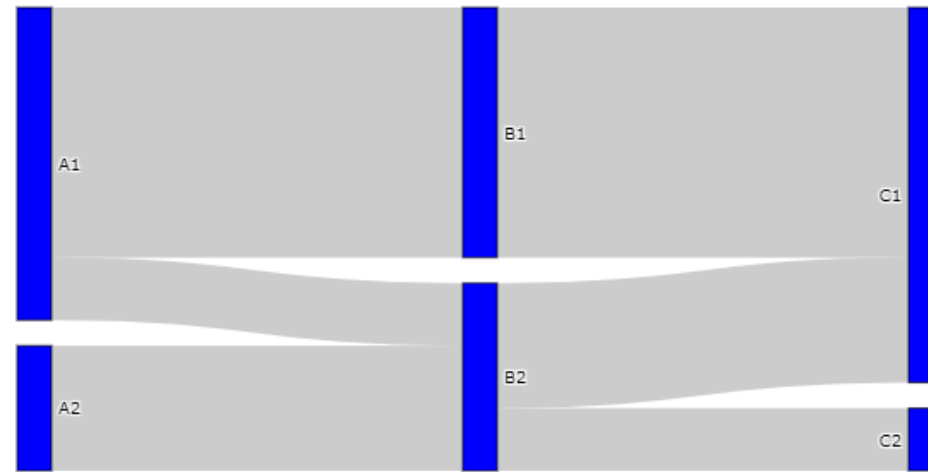
Chord diagrams help us to visualise the volume of the information flow. The given example shows the distribution of uber traffic from one place to another



Have you ever followed several processes at the same time?

Just like chord diagrams, the Sankey diagram also allows you to visualise the flow of information.

Basic Sankey Diagram



5. Become a Data Citizen

70 - 80% of data projects will fail



Forget about supporting the team

The Buzz

- "Yes, a dashboard is very important to us."
- "Data is strategic" "I want a dashboard"
- "Digitalisation is the key"
- "Let's do Big Data"
- "We need to run 2.0"

Data Sarcasm

- Management does not want "one version of the truth".
- Spreadsheets are more rewarding.
- More flexible. You just hit <Enter>.
- No data massage possible.
- Does everyone know what you know now?
- Do you think managers will create their own queries?

Responsibility



France 1991 - Contaminated blood scandal

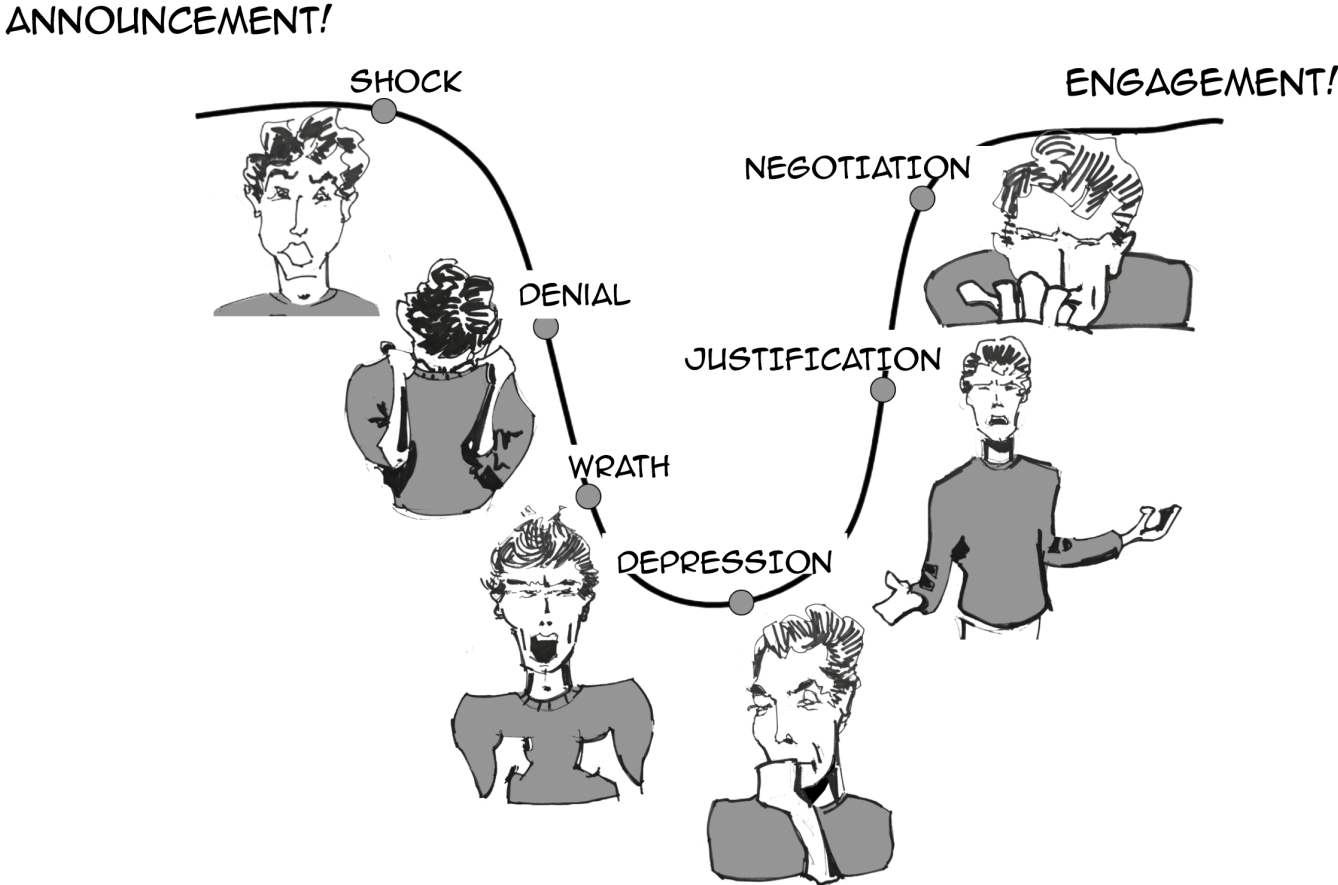
"Responsible but not guilty."

Drop the "responsible but not guilty" card



Change

Manage the Change Curve





Fred L. Alfred



Larry B. G'datah



Claire L. Lexel

Connor G. Vendor



Sustainability



Building to last...



Or build quickly?

Incentives

Why is this being done?

- Comfort
- Laziness
- Politics
- Bonus logic

The 6 letters that hurt

YBG - IBG

Find the Super Hero in You

- The power of "I can do "
- The power of "I don't know "
- The power of "why "
- The power of "Fail Fast " (fail fast)



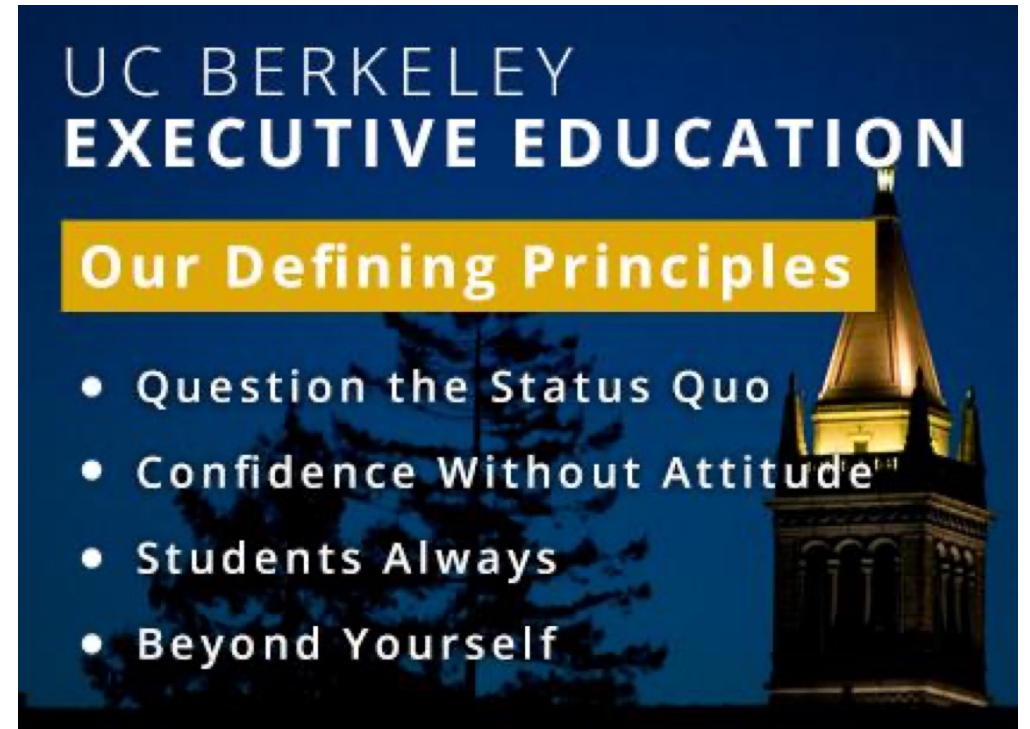
The New Directions

- Data Culture at Scale
- Open Innovation
- Design Thinking
- Diversity at work



Adopt new values

- Humility
- Curiosity
- Courage
- resilience
- An appetite for learning





Fostering swarm intelligence

6. Designing Lean processes

Detecting and fighting Creeper processes

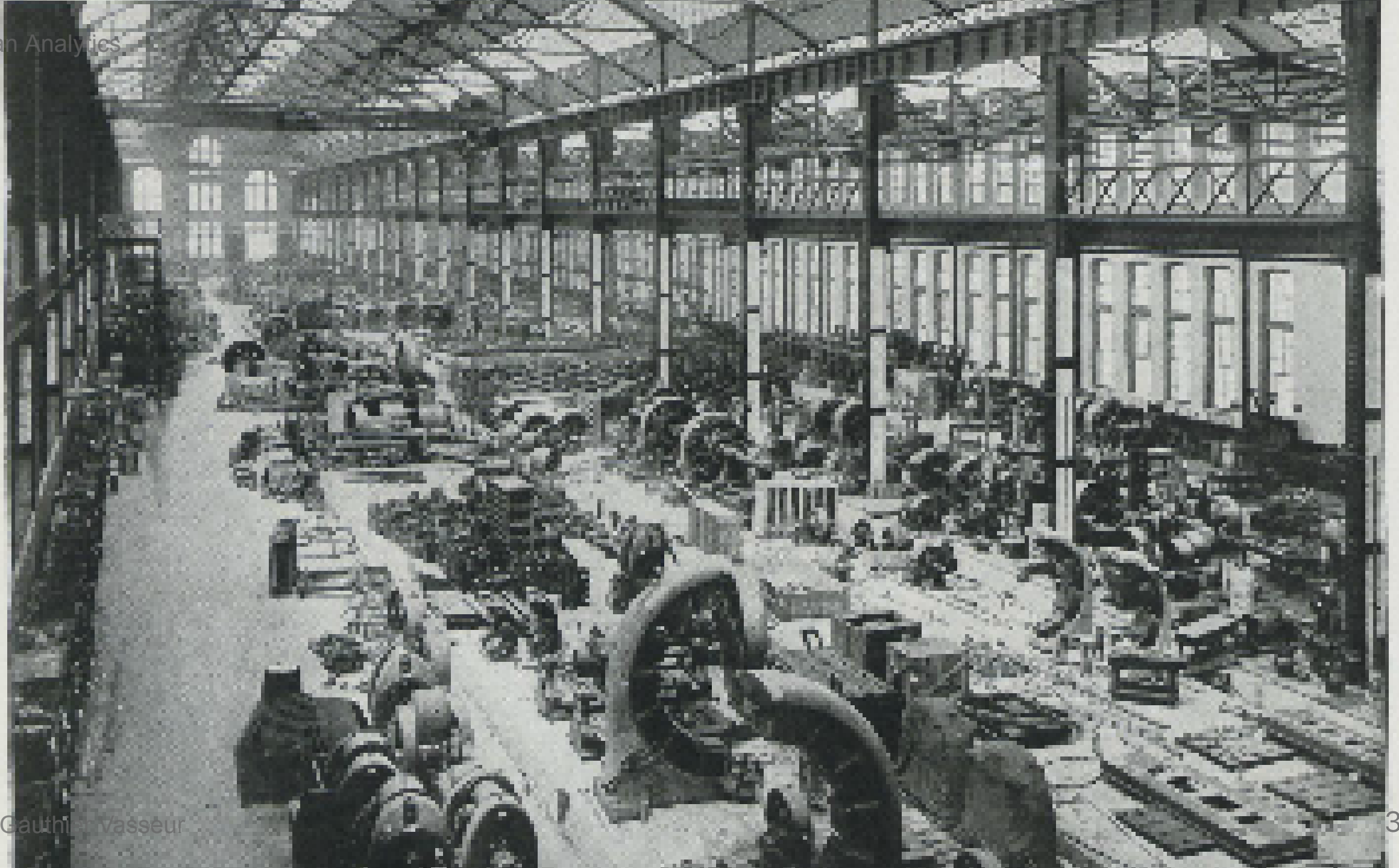
Creepers are the manual processes that plague all services.

- They generate hundreds of hours of lost time each month.
- They degrade transparency and compliance.
- They reinforce each other and introduce inefficiencies into entire organisations.

**When you bring a new technology
and you don't change your processes.**



Hawthorne Effect



The experience

Effect of light levels on worker productivity

Test and control groups

- The light remains the same in the control group
- Light levels vary in the test group



Brighten the light

Brighten the light

Increased lighting resulted in increased productivity in both groups!



**Then dim the
light**



Dim the light

**Productivity has increased!
Especially in the test group**



Dim the light

Until the light of the moon

bg 60% left](res/image208.png)



- **Maintained productivity**

Conclusions

- Individuals are more productive when they know they are under study
- Measurement drives behaviour
- BI and Performance Management are already having an effect