

Developer to CTO

CS 7002

The exam

The final exam

From next Tuesday: 4 sessions of project **presentation** and **debate**

The goal of the **presenting group** is to **explain** to the audience **why & how** they designed their IT project.

The goal of the **audience** is to **challenge** the presenting group on its **choices** and **designs**.

The final exam

Points to be included in the presentation:

- General description of the project
- Vision and Strategy
- Business Model Canvas
- Team organisation
- MVP presentation
- Event Storming
- Architecture
- Information System
- Architecture
- Stacks
- Roadmap

Setup

Information System

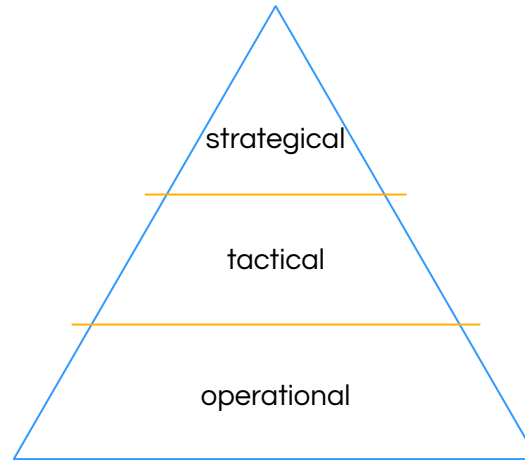
It is an **organizational system** designed to **collect, process, store** and **distribute** information.

Examples:

- CRM
- Internal documentation
- Customer support

The goal of the Information System

See and **analyse** what happens inside the company in order to **make decisions**



The IS components

Hardware

Software

People

Processes

Data-driven company

Today's company should be data-driven from day 1.

"What is measurable is improvable"

What is to be data-driven?

Data-driven company

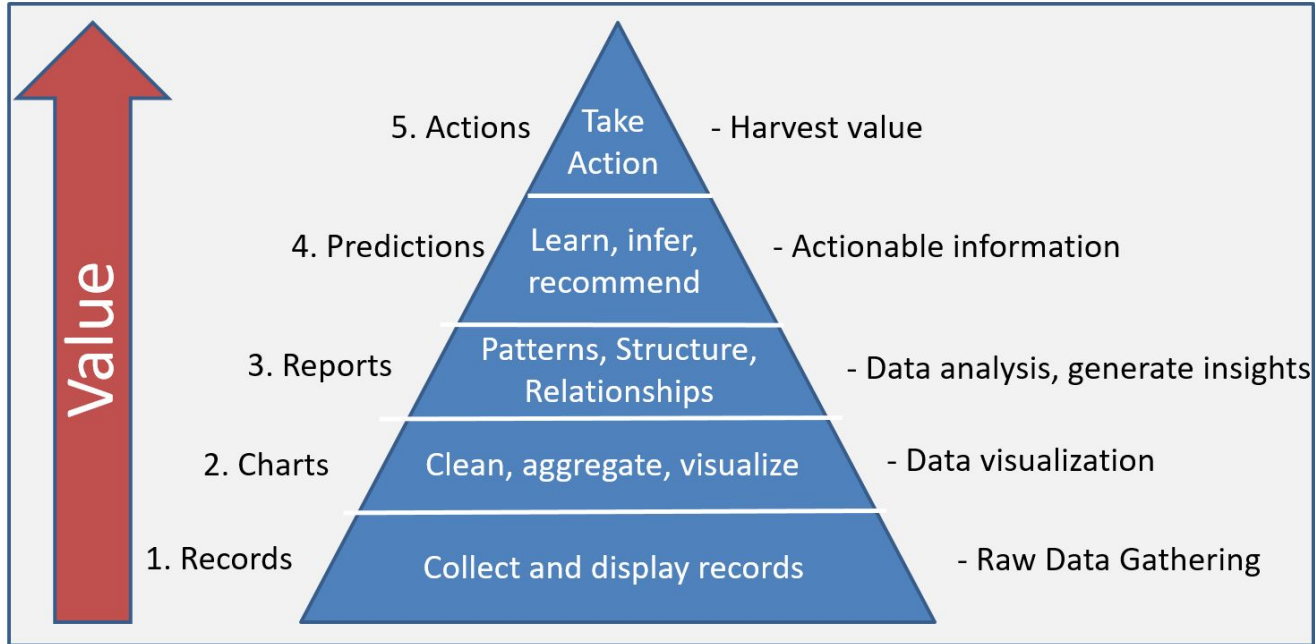
A company where **decisions** are based on data **analysis** and **interpretation**.

A data-driven approach enables companies to examine and organise their data with the goal of better serving their customers and improving its internal processes

Allow IS **sustainability** by considering every element of your company as a **source of information**.

Make these elements enter in your **strategy** of **company-wide data treatment**.

Data-value pyramid



IS and Data?

The usual implicit difference between information and data is only that

- **information** is handled by an **external system** (the IS)
- **data** is handled by a **software** your write (the tech)

The challenge is the **formality of the information**

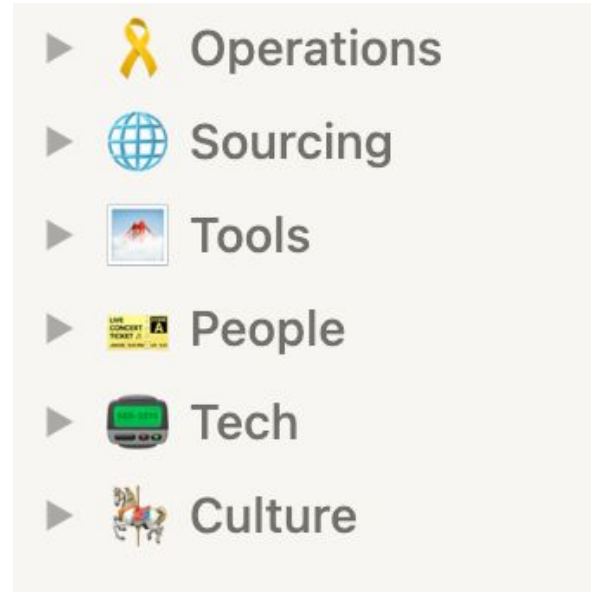
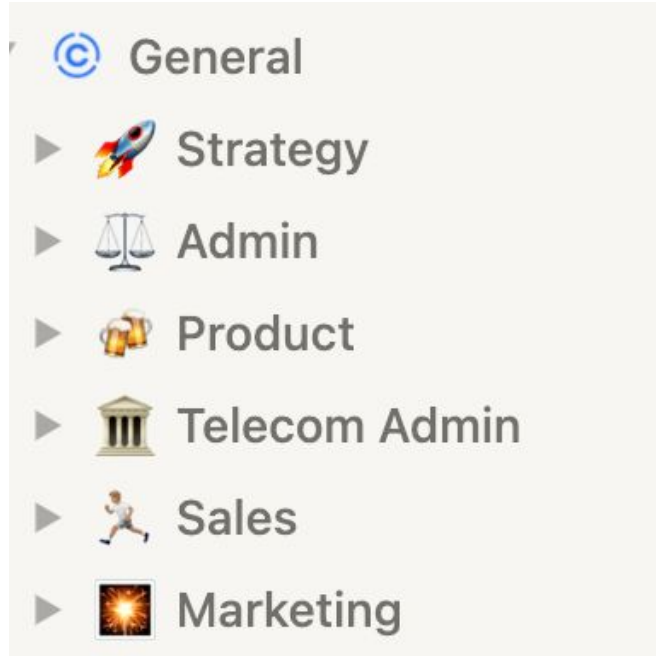
Information types

- Strategic information
- Financial information
- Legal information
- Human Resources information
- Product information
- Technical information → what you might call “data”
- Operations information
- Customer information
- Support information
- Metrology / BI

The required systems

- Communication system
- Documentation system
- Sale system
- Operations system
- Support system
- Metrology system

Our minimal setup at Cantoo



Communication systems



Documentation systems



git



BIT.AI



Tettra



Confluence



Figma



draw.io

Sale systems



Operations systems



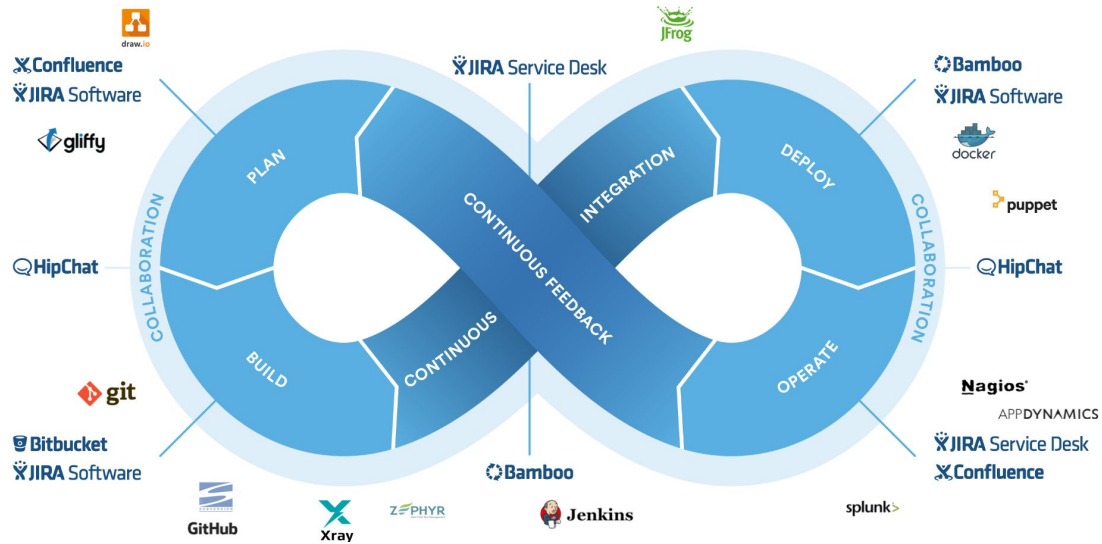
Support systems



Metrology systems



Atlassian suite



Session learnings

- What is an Information System
- How to setup a minimal IS for your project
- Common tools used for your SI

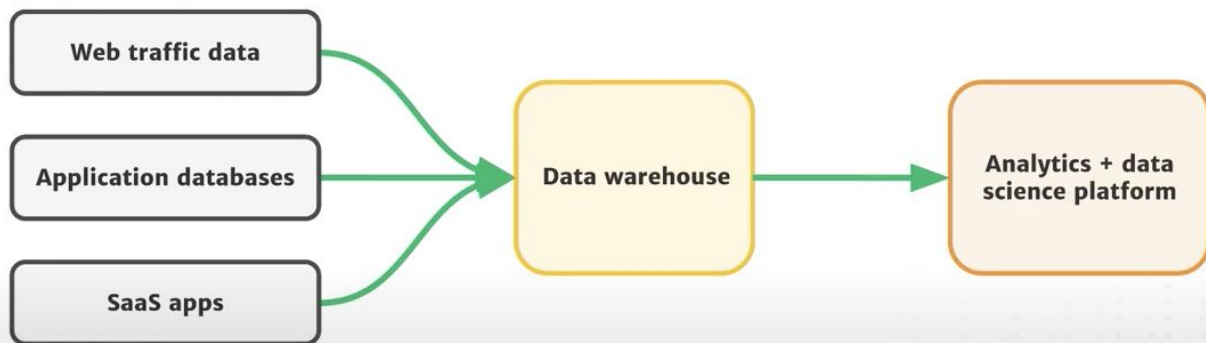
Next session

- Develop modern systems
- Cloud
- Infrastructure
- Modern processes

Developer to CTO
SESSION 9

Develop

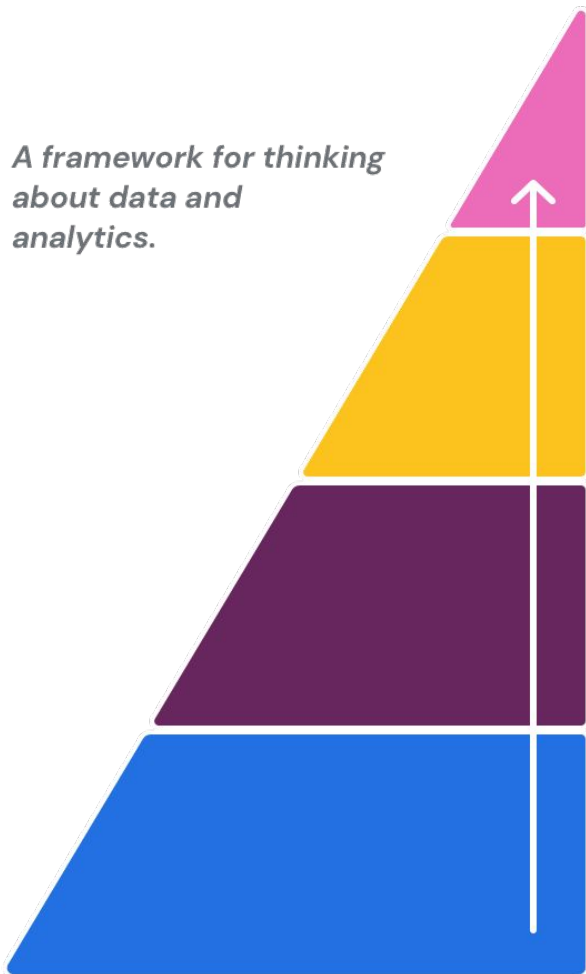
Three major categories:



Impact

Appendix

*A framework for thinking
about data and
analytics.*



Analytics

Added context to some metrics to tell a story that will inform future decision making.

KPIs

Simply the most important metrics that matter to your business.

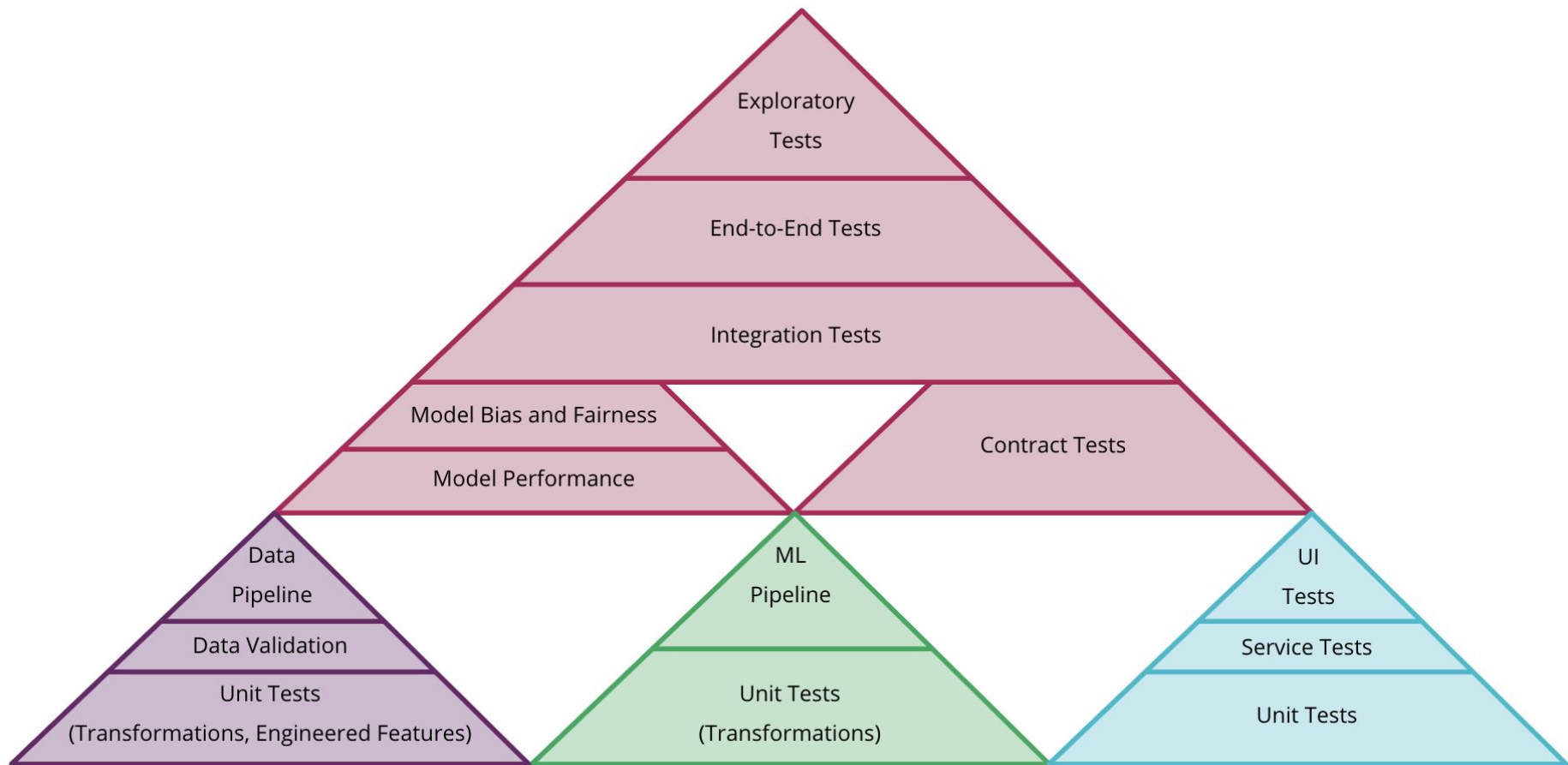
Metrics

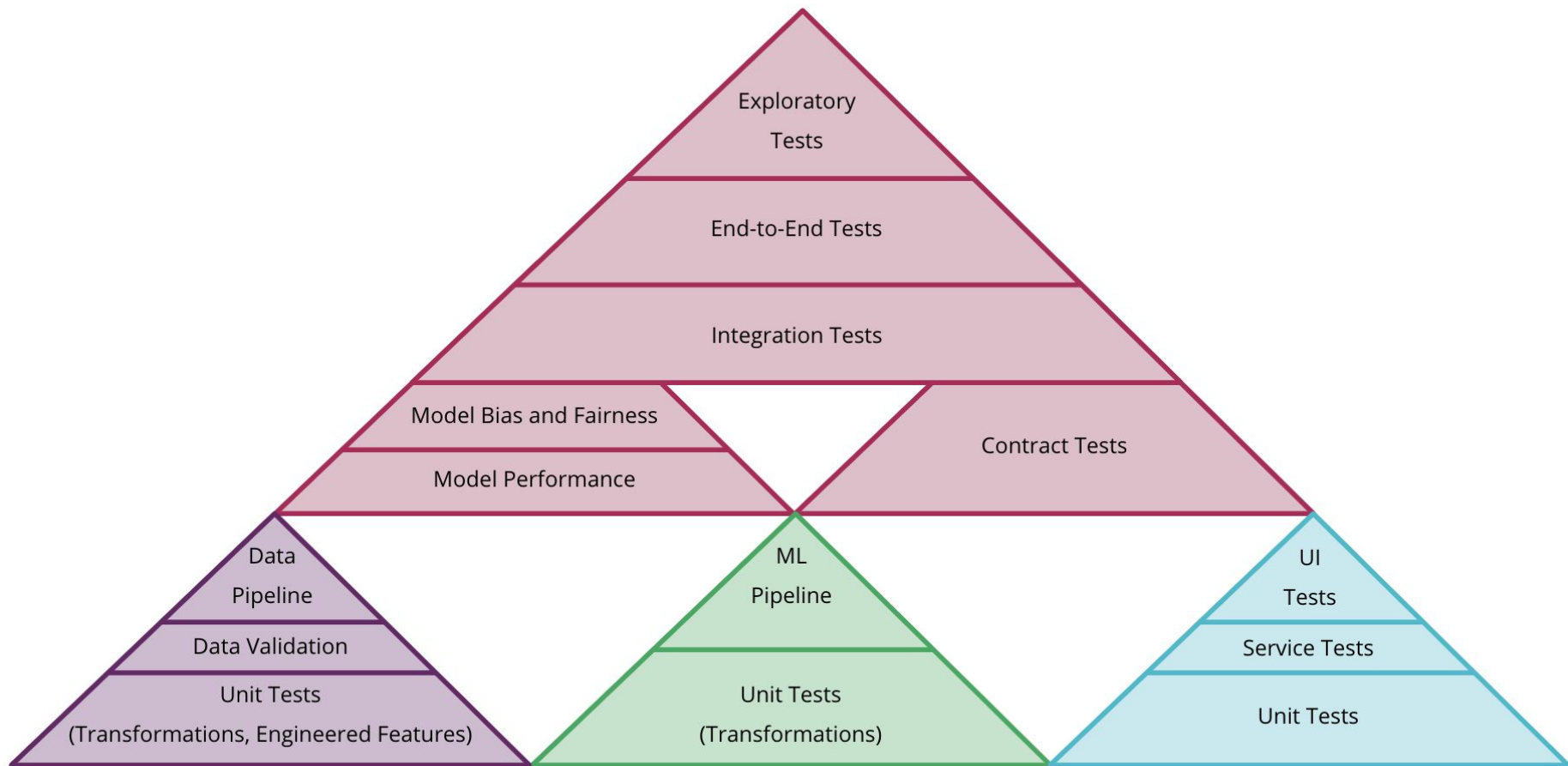
The collection of one or more measurements to give a standard value of something meaningful.

Measurement

The foundation of all data-driven businesses, collecting data from actions in the systems powers everything above it.

Developer to CTO - Romain Untereiner





The Elements of Value Pyramid

Products and services deliver fundamental elements of value that address four kinds of needs: functional, emotional, life changing, and social impact. In general, the more elements provided, the greater customers' loyalty and the higher the company's sustained revenue growth.

SOCIAL IMPACT



Self-transcendence

LIFE CHANGING



Provides hope



Self-actualization



Motivation



Heirloom



Affiliation/belonging

EMOTIONAL



Reduces anxiety



Rewards me



Nostalgia



Design/aesthetics



Badge value



Wellness



Therapeutic value



Fun/entertainment



Attractiveness



Provides access

FUNCTIONAL



Saves time



Simplifies



Makes money



Reduces risk



Organizes



Integrates



Connects



Reduces effort



Avoids hassles



Reduces cost



Quality



Variety



Sensory appeal



Informs