

# The Organisation As A System

*The Performance Organiser*

An information management framework

Third Transition – Fact Generation

# Third Transition – Fact Generation

- Clear Line of Sight
- Centralised control v delegated responsibility
- The ability to “burrow”
- Any point entry
- Evidence based decision support
- Portal Everywhere
- Structured and unstructured data
- Management and control of data location

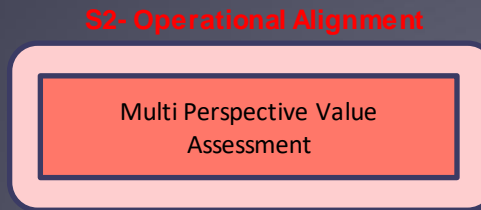
# The Third Transition –Fact Generation

The training pack:

- Index – [Operating Concepts](#)
- 1. [Data Capture and validation](#)
- 2. [Operational Alignment](#)
- 4. [Structured and unstructured data alignment](#)
- 5. Pattern recognition et al
- 6. The organisation boundary

# The Third Transition –Fact Generation

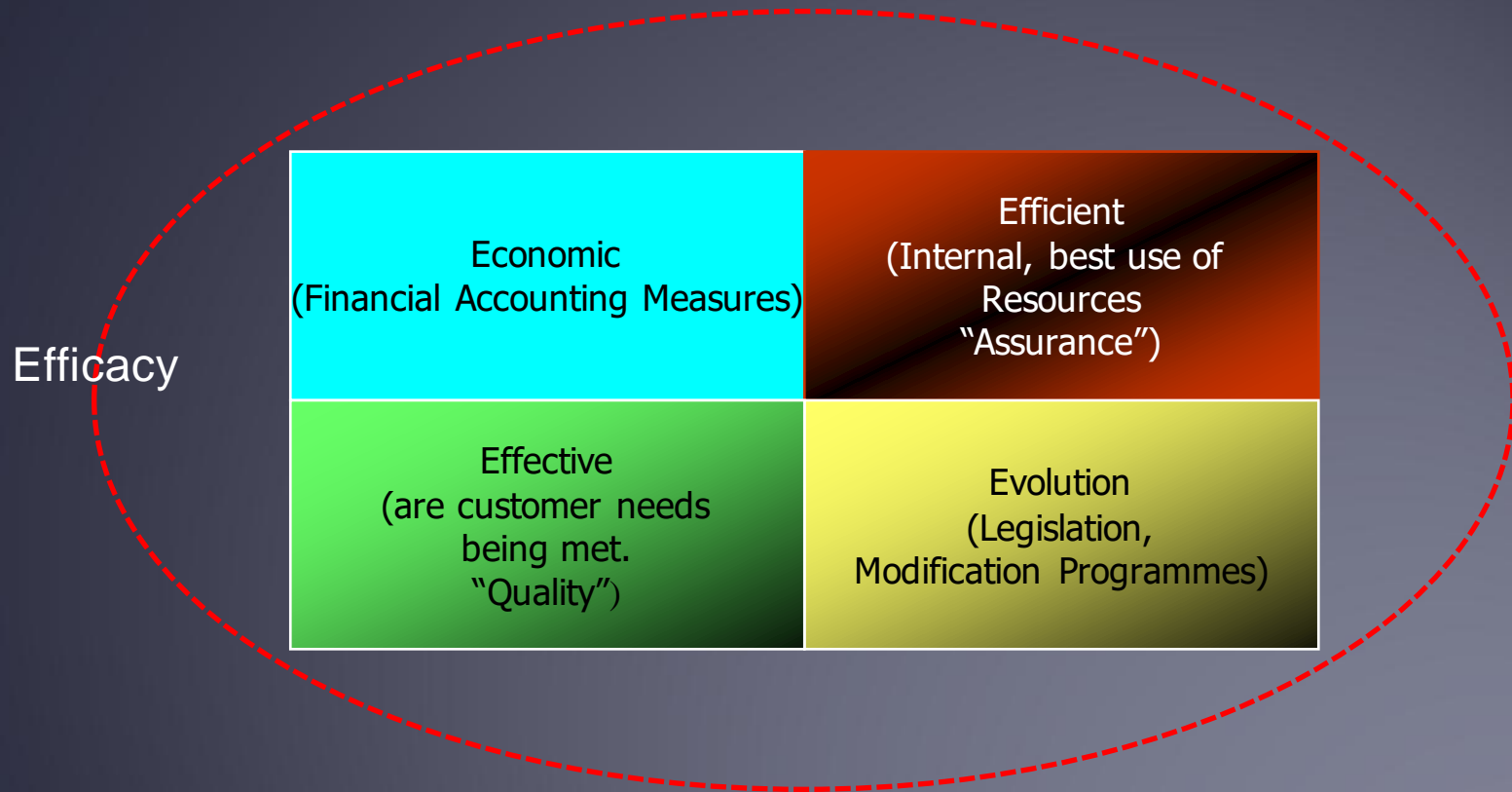
The previous deck:



Operational alignment. The third transition is an architectural information maturity exercise from it. There is therefore a dependency.

# Third Transition – Fact Generation

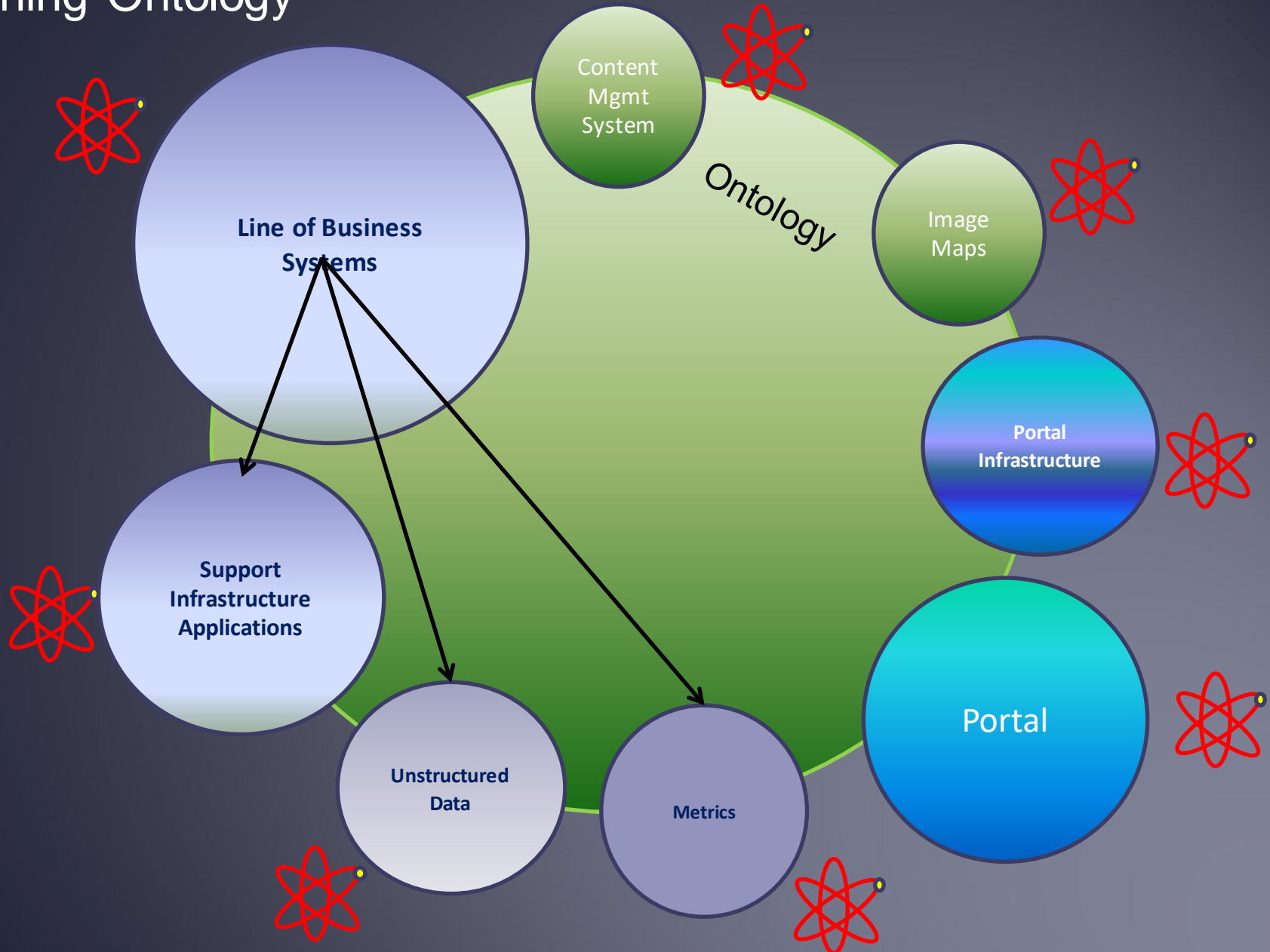
New Perspectives



All influenced or constrained by time.

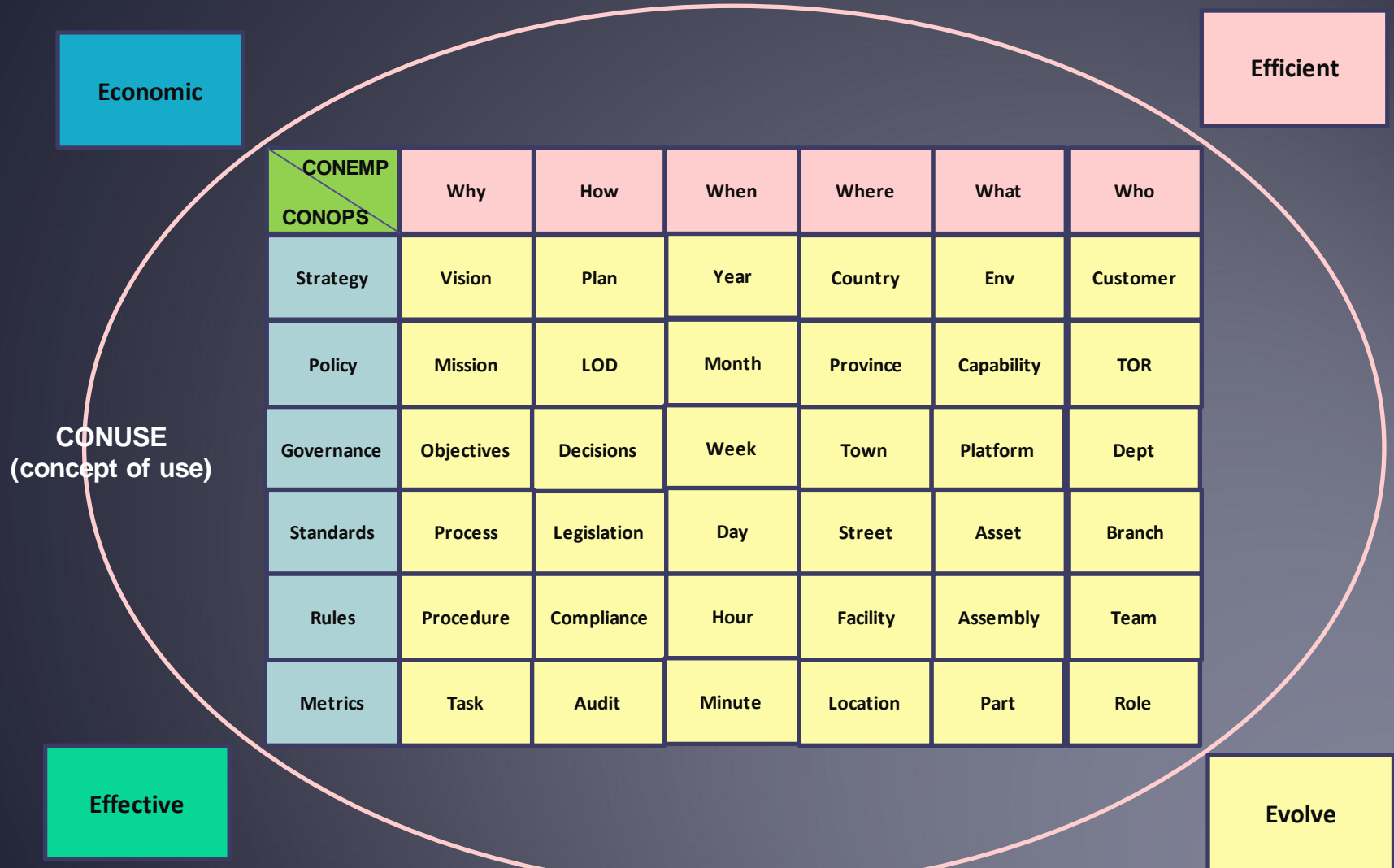
# Third Transition – Fact Generation

## Refining Ontology



# Third Transition – Fact Generation

As a basis for gateways into the dataverse

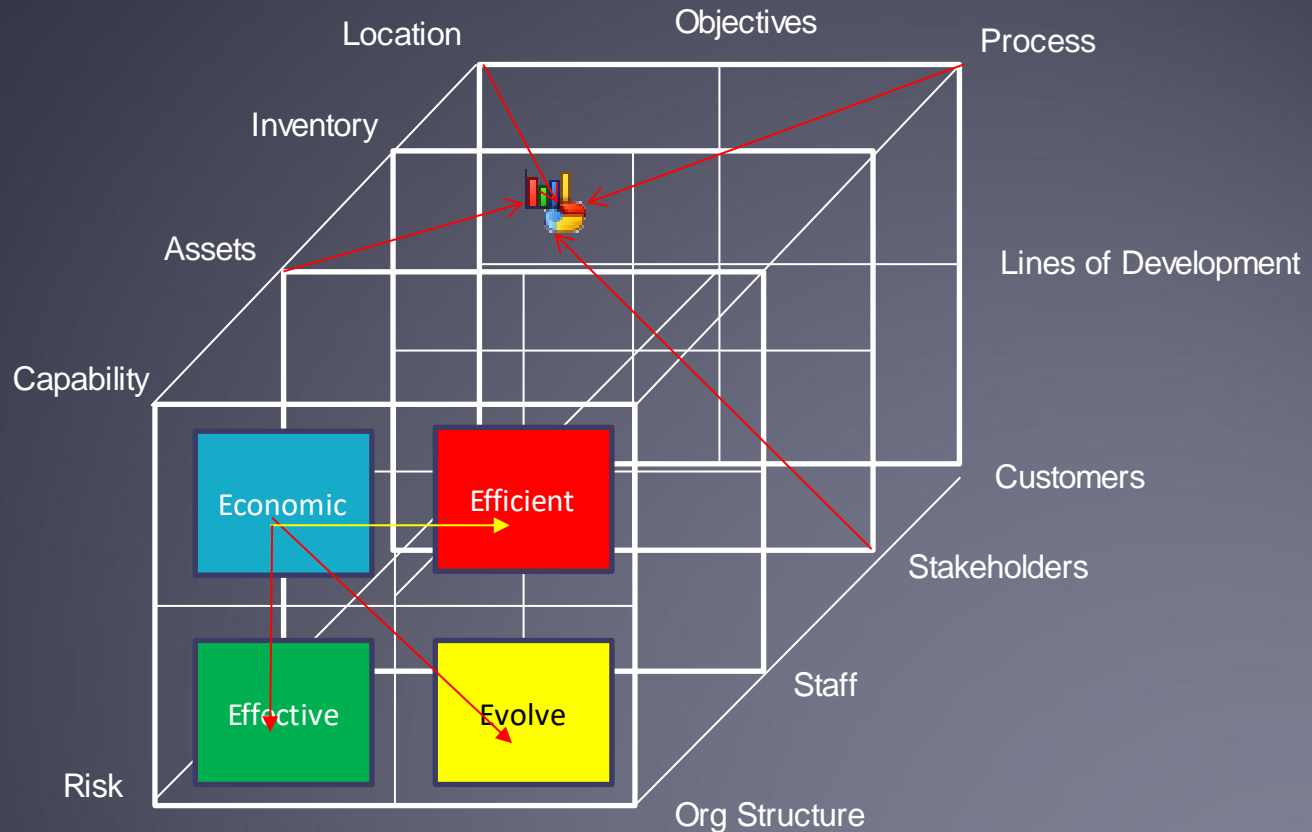


## Third Transition – Fact Generation

Which gives the means to target information in a cartesian basis

## Third Transition – Fact Generation

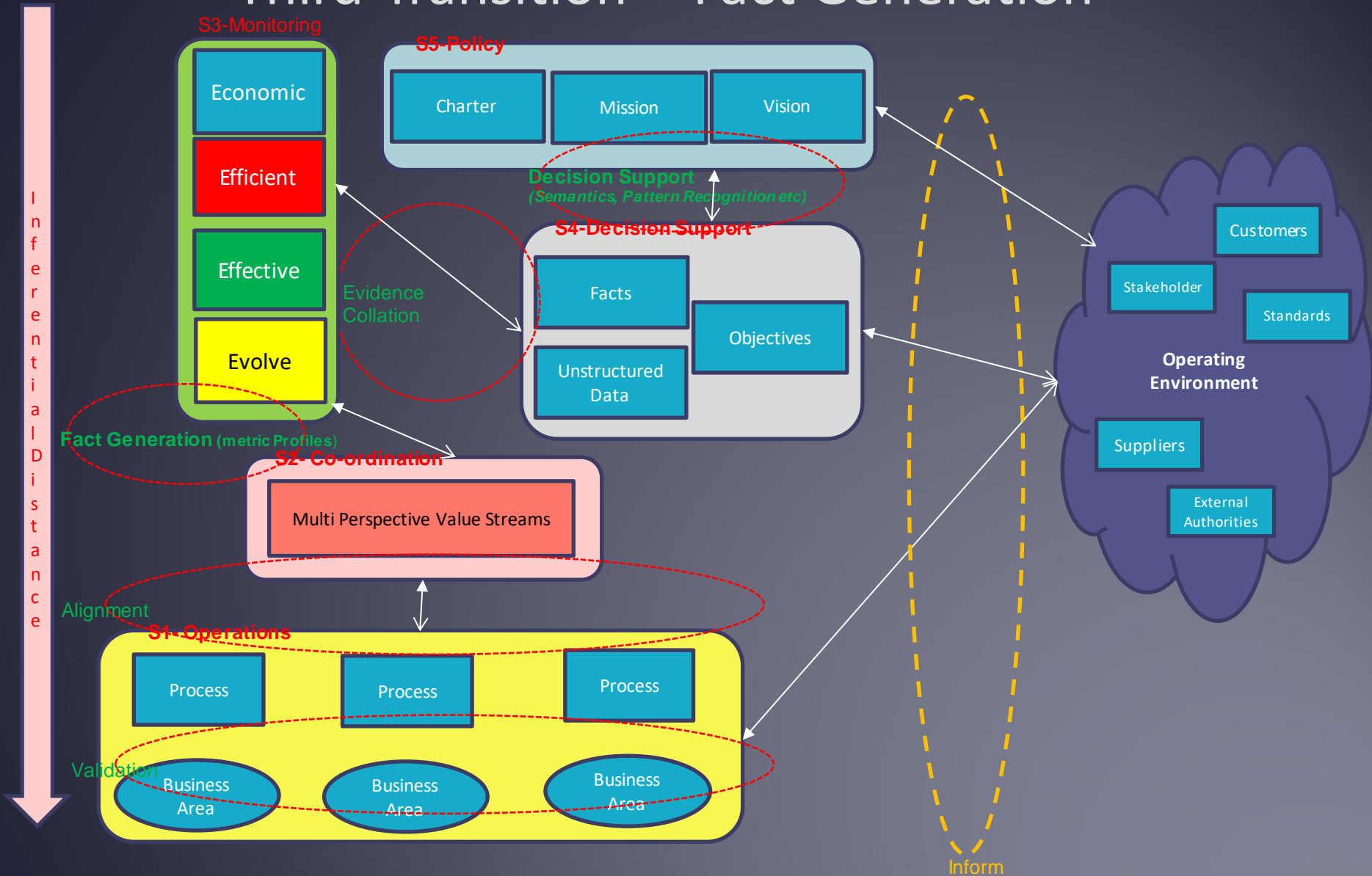
Which gives the means to target information in a cartesian basis



# Dimensions are relative to each other in time and space



# Third Transition – Fact Generation



# Third Transition – Fact Generation

More Nuanced Reporting

# Third Transition – Fact Generation

What the user sees (ideally)..

Platform Supply Sitrep Demand Throughput for 2014

Facts | Platform Demand Timeline | Platform Demand Status Proportion | Units/Formations | DMC's/SMBI Snapshot | Priority Code Snapshot

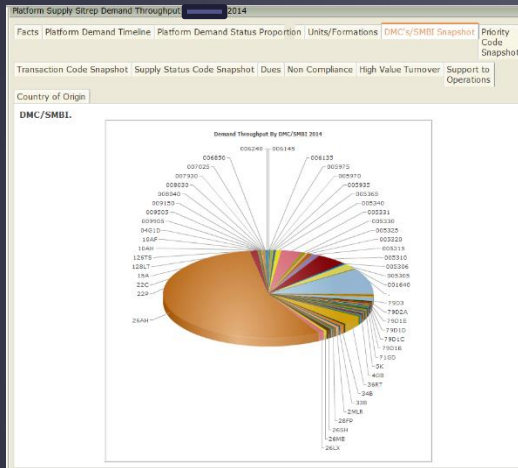
Transaction Code Snapshot | Supply Status Code Snapshot | Dues | Non Compliance | High Value Turnover | Support to Operations

Country of Origin

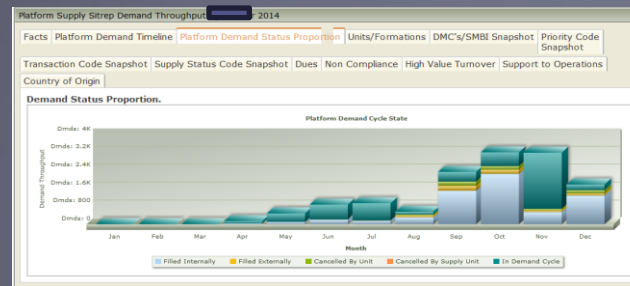
**Facts.**

Description	Value
Demand Count	13,859
Item Count	166,959
Value	£154,241,327.44
In Transit Count	5,841
Demands Cancelled By Demanding Unit	0
Demands Cancelled By Supporting Unit	0

## Gateways



Top level summaries

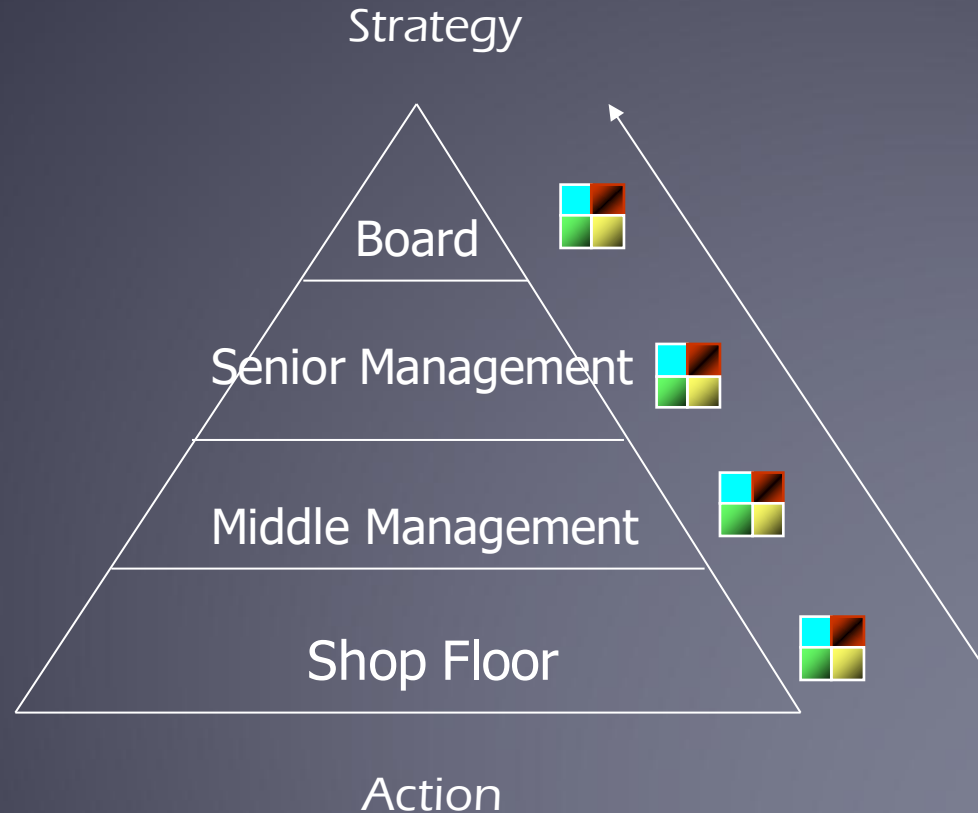


Timelined detail

With each chart section or data point providing a gateway into operational alignment and/or raw data

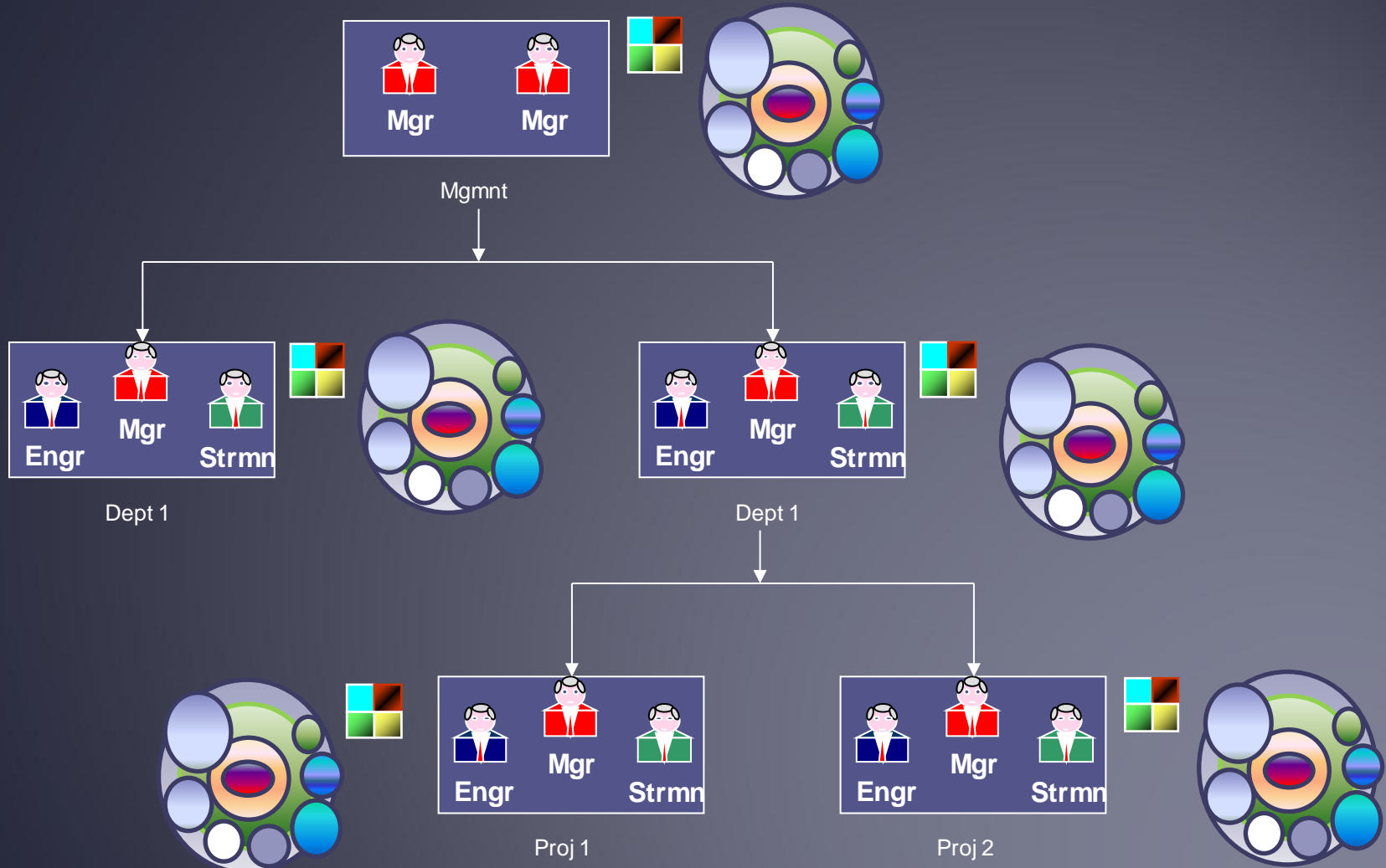
# Third Transition – Fact Generation

Contextually sound reporting

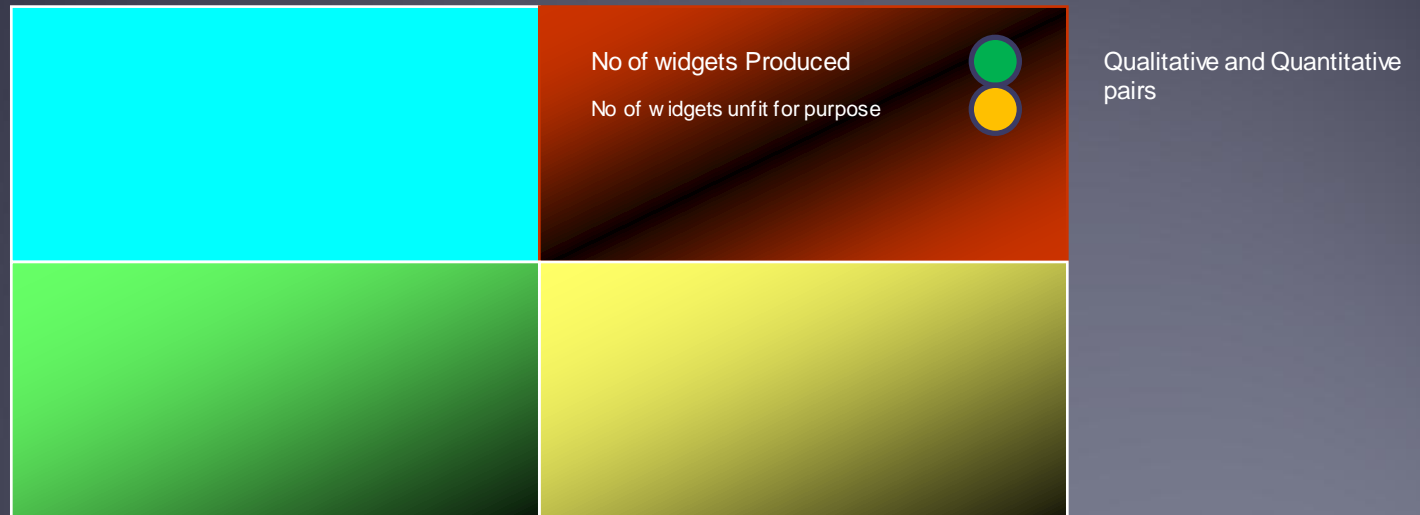


# Third Transition – Fact Generation

That reflects organisation form, function and purpose

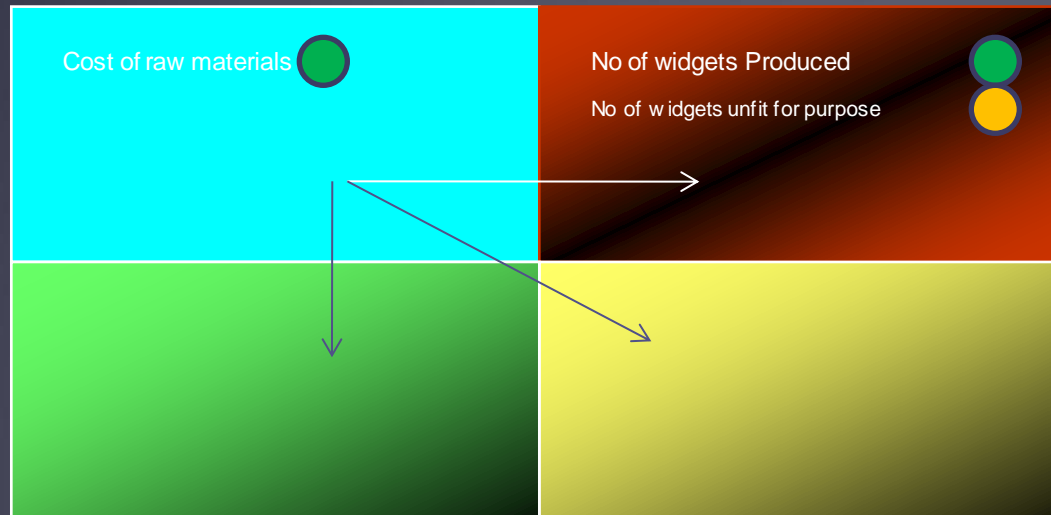


# Third Transition – Fact Generation



Specify KPI's so that they support a single perspective

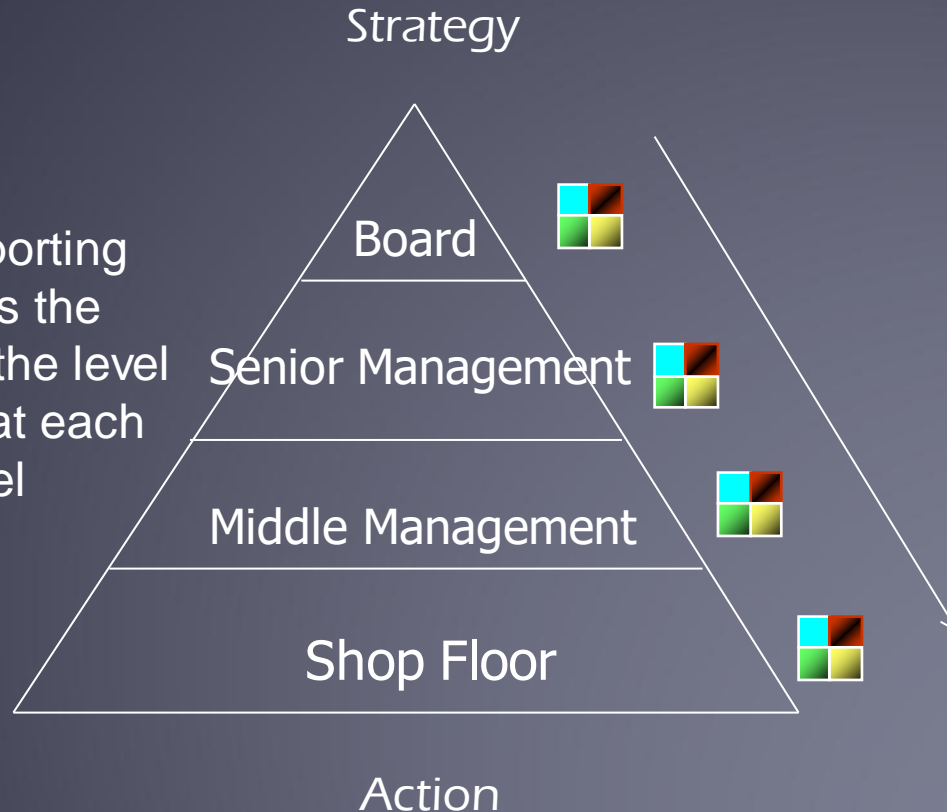
# Third Transition – Fact Generation



Identify Cross Perspective Links (supportive or dependent)

# Third Transition – Fact Generation

Identify top down composition of reporting needs which gives the means to identify the level of detail required at each organisational level

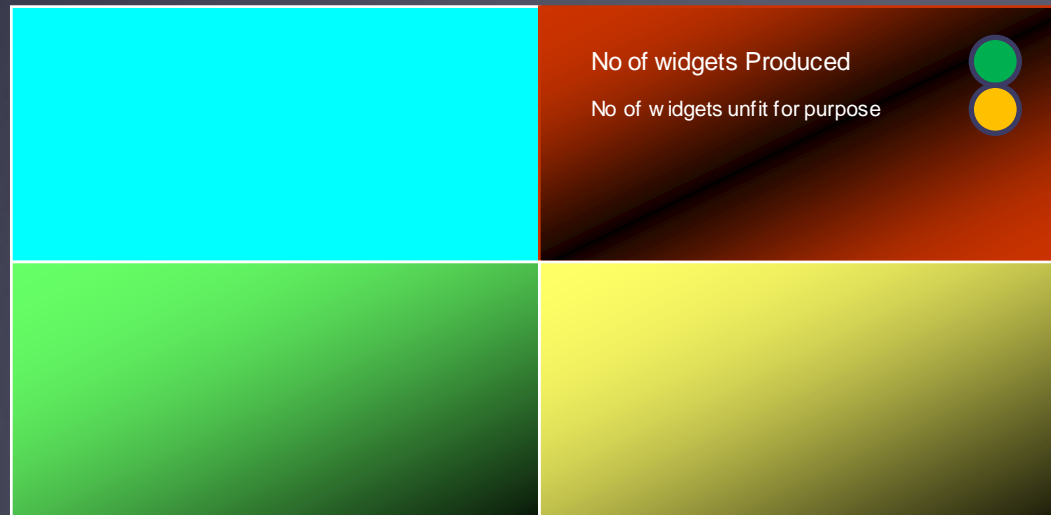




# Third Transition – Fact Generation

Maths – An Overview

# Third Transition – Fact Generation

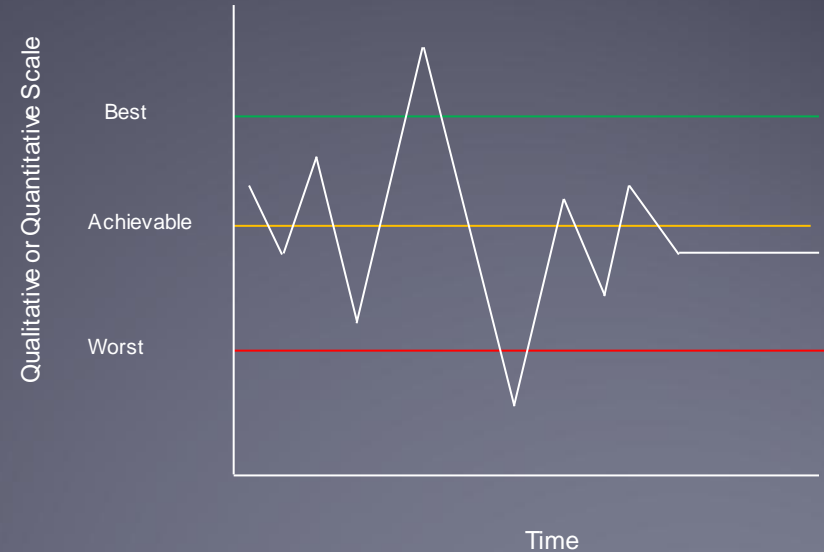
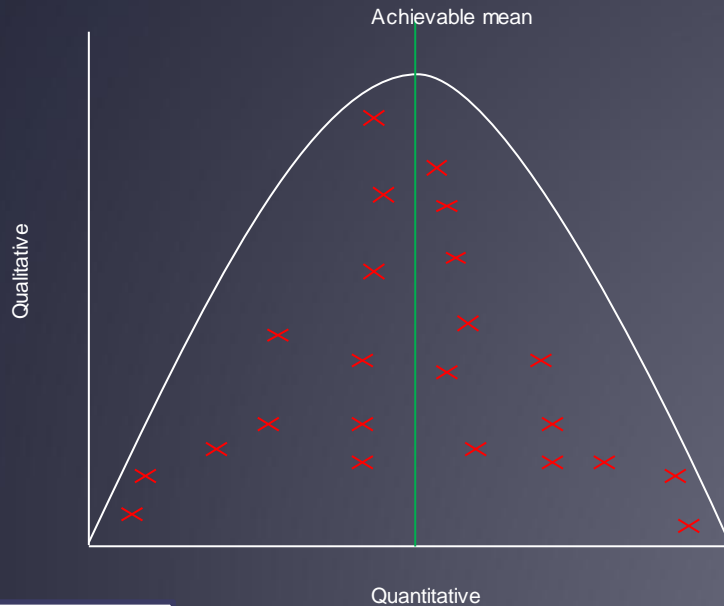


For each dashboard, provide comprehensive navigation support

“Top Down”, “Bottom Up” and “Laterally”

# Third Transition – Fact Generation

## Single KPI Dashboard



J	F	M	A	M	J	J	A	S	O	N	D
12	36	12	48	23	12	11	36	12	88	23	12
		16	32	27	27	15	19	19	45	41	41

For each indicator provide additional documentary evidence

Current achievable mean = 22

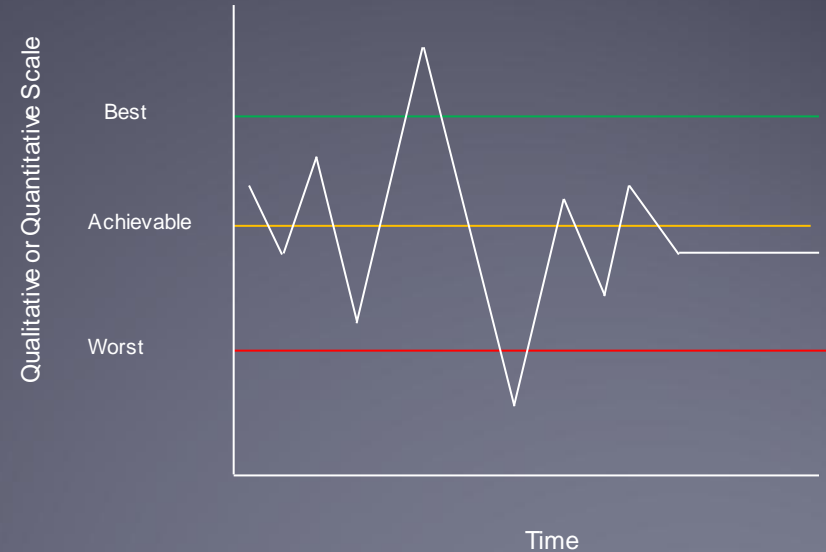
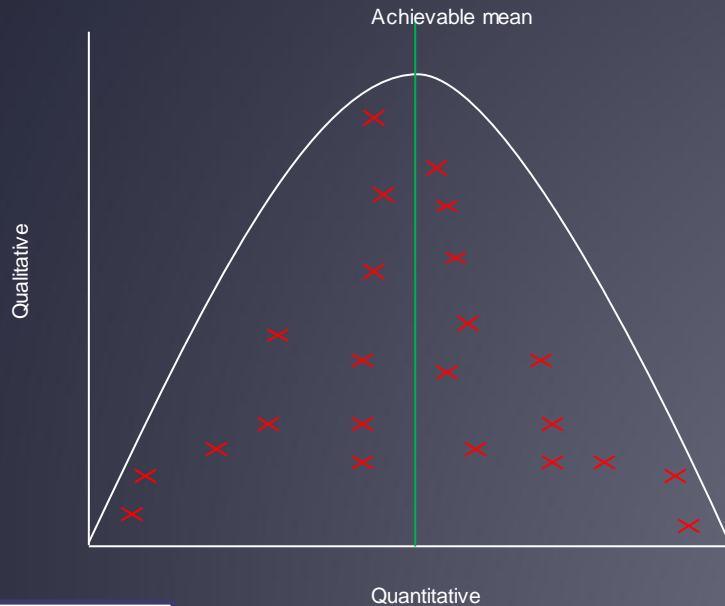
Achievable mean = 28

Flag state = **RED**

The Performance Organiser

# Third Transition – Fact Generation

To optimise the process, the achievable mean can be moved toward the upper tolerance limit and the lower tolerance can be raised too




J	F	M	A	M	J	J	A	S	O	N	D
12	36	12	48	23	12	11	36	12	88	23	12
		16	32	27	27	15	19	19	45	41	41

For each indicator provide additional documentary evidence

## Third Transition – Fact Generation

Change In Data Form – “Relational” to “Fact”  
to “Related Facts”

# Third Transition – Fact Generation



Canonical  
Model

A data dictionary should contain the descriptive attributes of “thing”.


But “thing” has context. “Things” do not usually exist in isolation in the world and the same principle applies in respect of “data”

“Thing” will form relationships, permanent and temporary with other “things”

“Things” will have a life cycle and will change state over it. Things will have measurable attributes related to fitness for purpose, population and size

Measureable attributes will have methods of calculation applied which will lend themselves to deterministic statistical analysis

# Third Transition – Fact Generation



Canonical  
Model

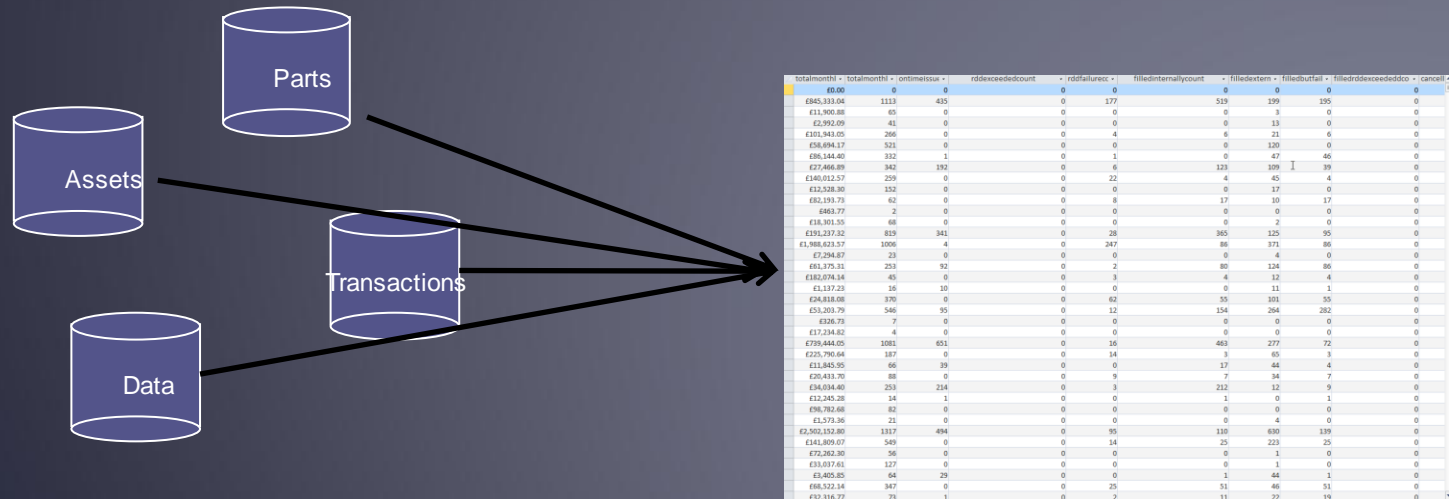
Change in data form – fact tables

If one of the primary responsibilities of information technologists is to ensure that any dataset is as complete as possible and properly validated.....

Then one of the primary responsibilities is for the business to specify, as part of a requirement set, the nature of methods of calculation to that are applied to which data attributes and how frequently measurements will be taken and where from in process life cycles.

It also means that “the business” has a structured approach to statistical analysis in mind that can direct the transition from determinism to the kind of predictive capability that will be required as data volumes inevitably grow

# Fact tables

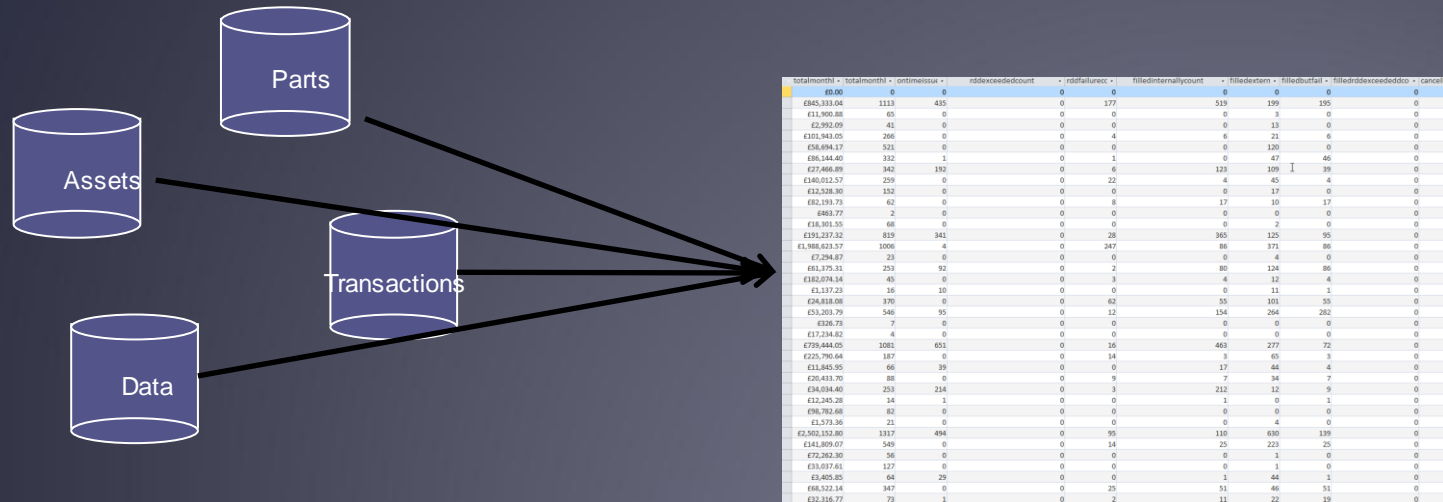


# Transform




# Third Transition – Fact Generation

## Introduce Gateways As Keys



Renormalise

# Third Transition – Fact Generation



Canonical  
Model

The third component – methods of calculation

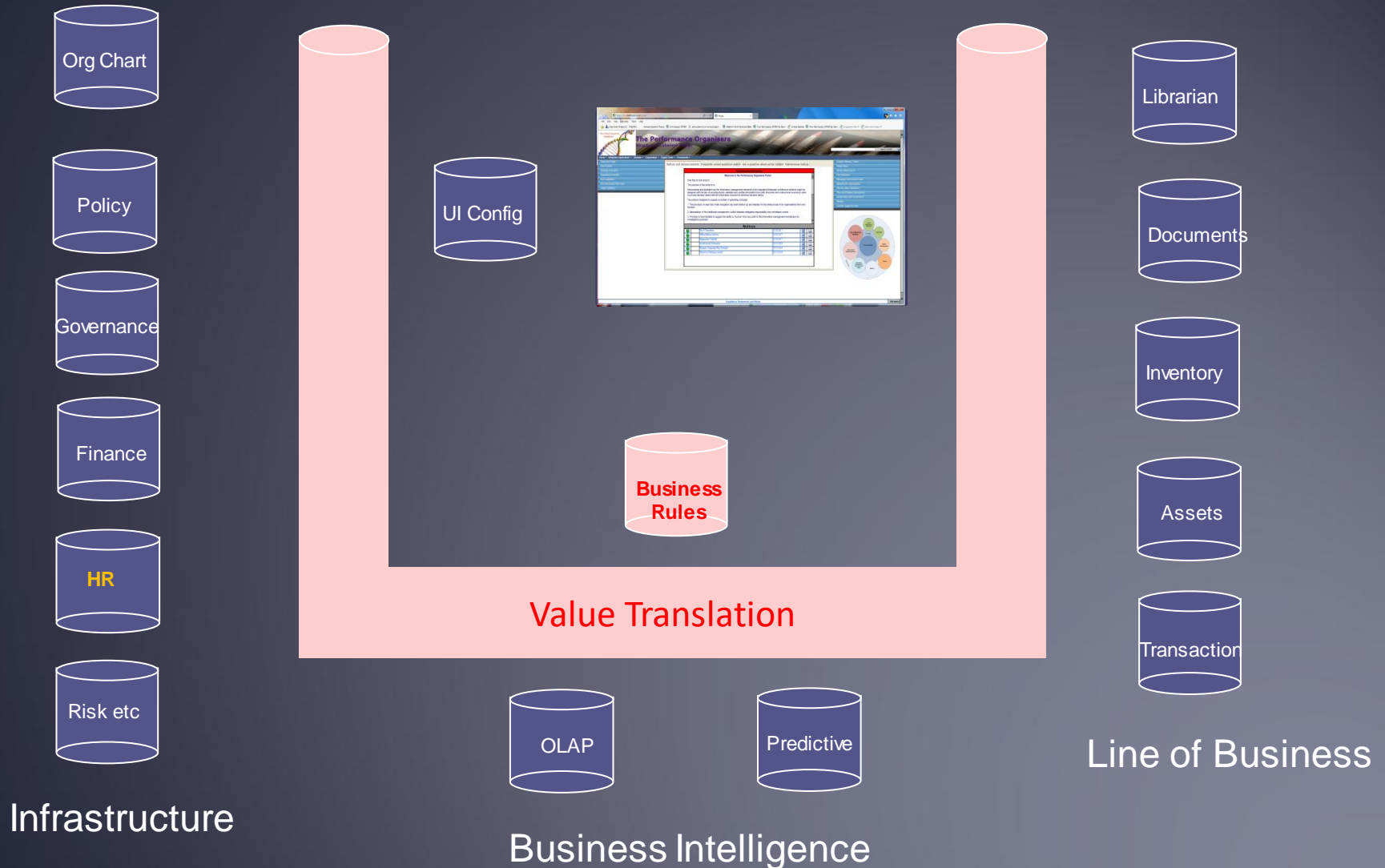
Once fact tables are built and identified, it is more than likely that there will be exploitable relationships across table boundaries against which normalisation techniques may be applied.

In terms of storage, the “footprint” reduction that fact based summaries might bring about, is, in some cases, in the order of 90%

Which in turn means that query execution is significantly faster compared to, say, SQL inner and outer joins across large data sets.

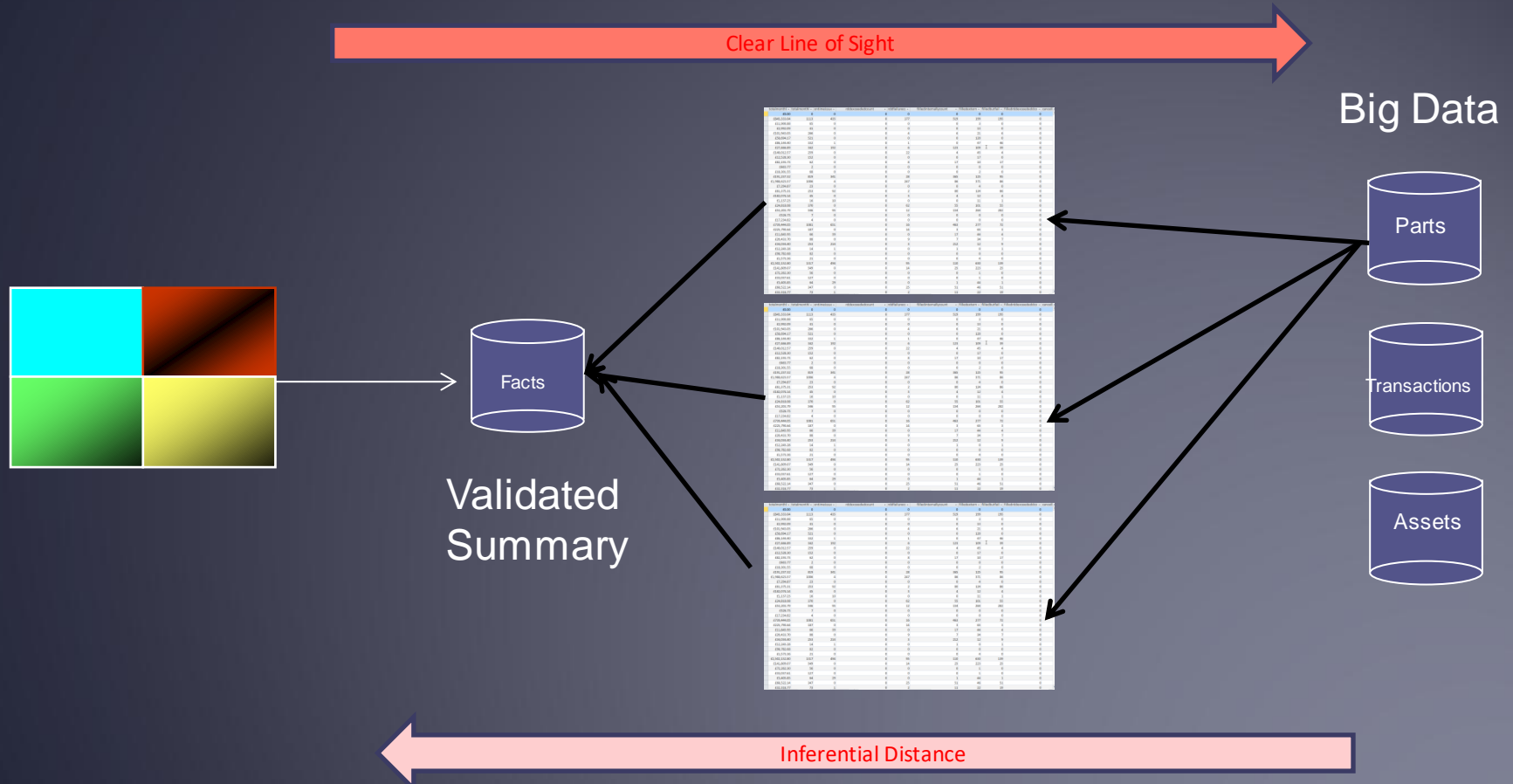
# Operating Principles – Canonical Modelling

## Introduce Fact Tables Into the Data Architecture



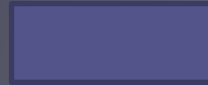
# Third Transition – Fact Generation

Dashboards as Gateways that support investigation



# Third Transition – Fact Generation

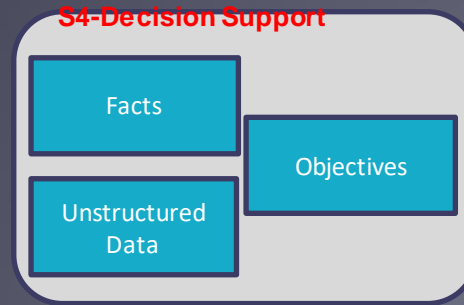
Demonstration



The Desktop

# Third Transition – Fact Generation

Next deck – Transition 4, align structured and unstructured data



# Third Transition – Fact Generation

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