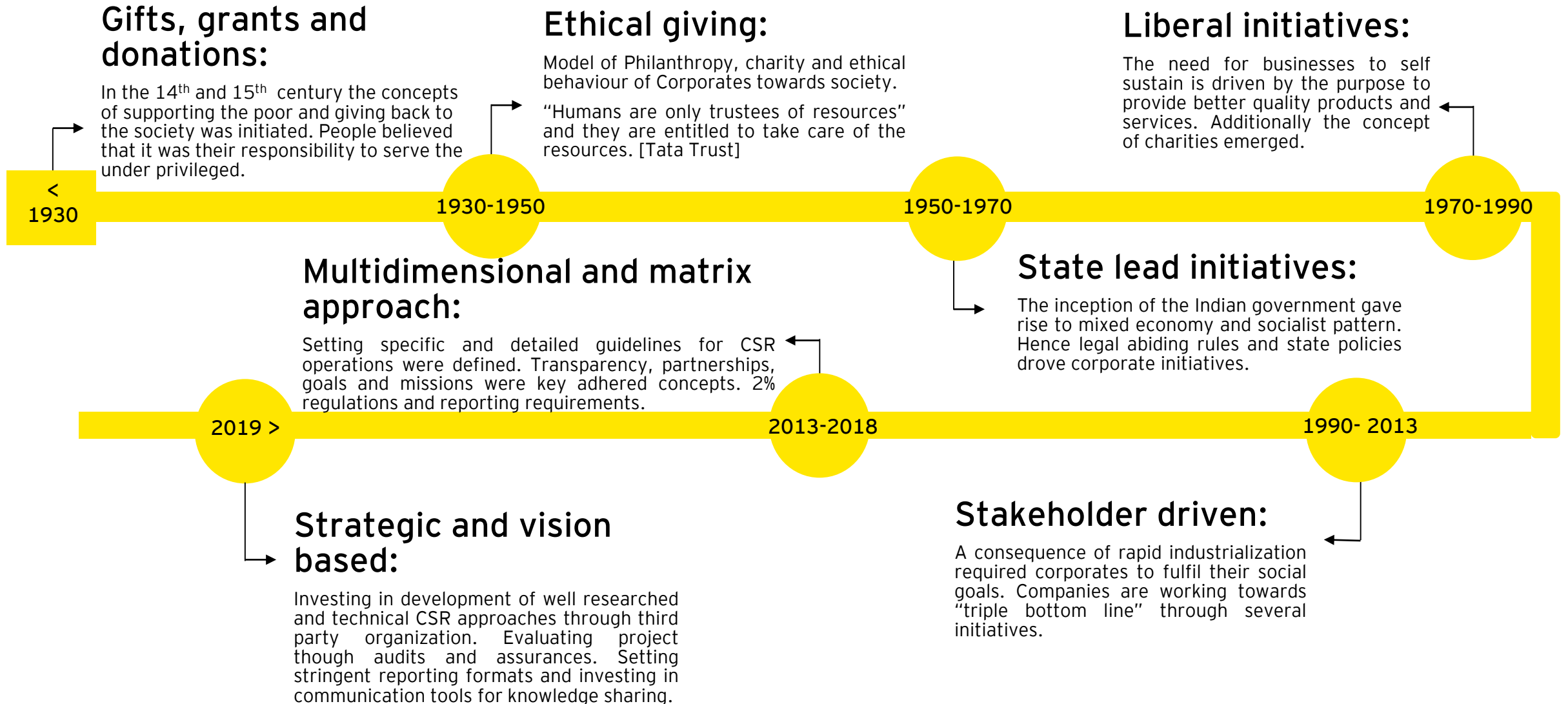


An aerial photograph of a large group of triathletes in black wetsuits and white swim caps swimming in turquoise water. A single kayaker in a bright pink kayak is positioned in the center of the group. A large yellow trapezoidal shape is overlaid on the left side of the image, containing the title text.

# Digital Analytics, Dashboard and Data Visualisation in CSR



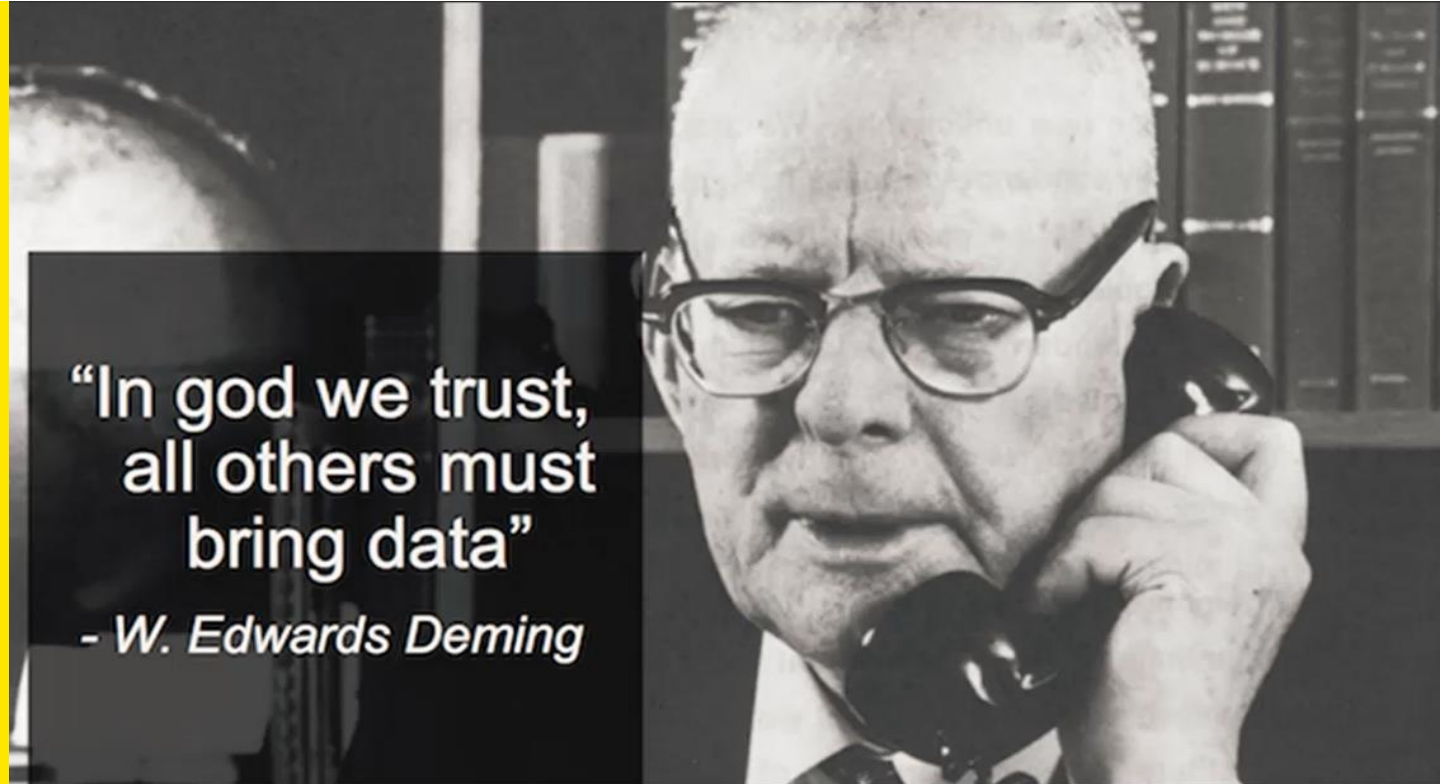
# The changing spectrum of CSR in India



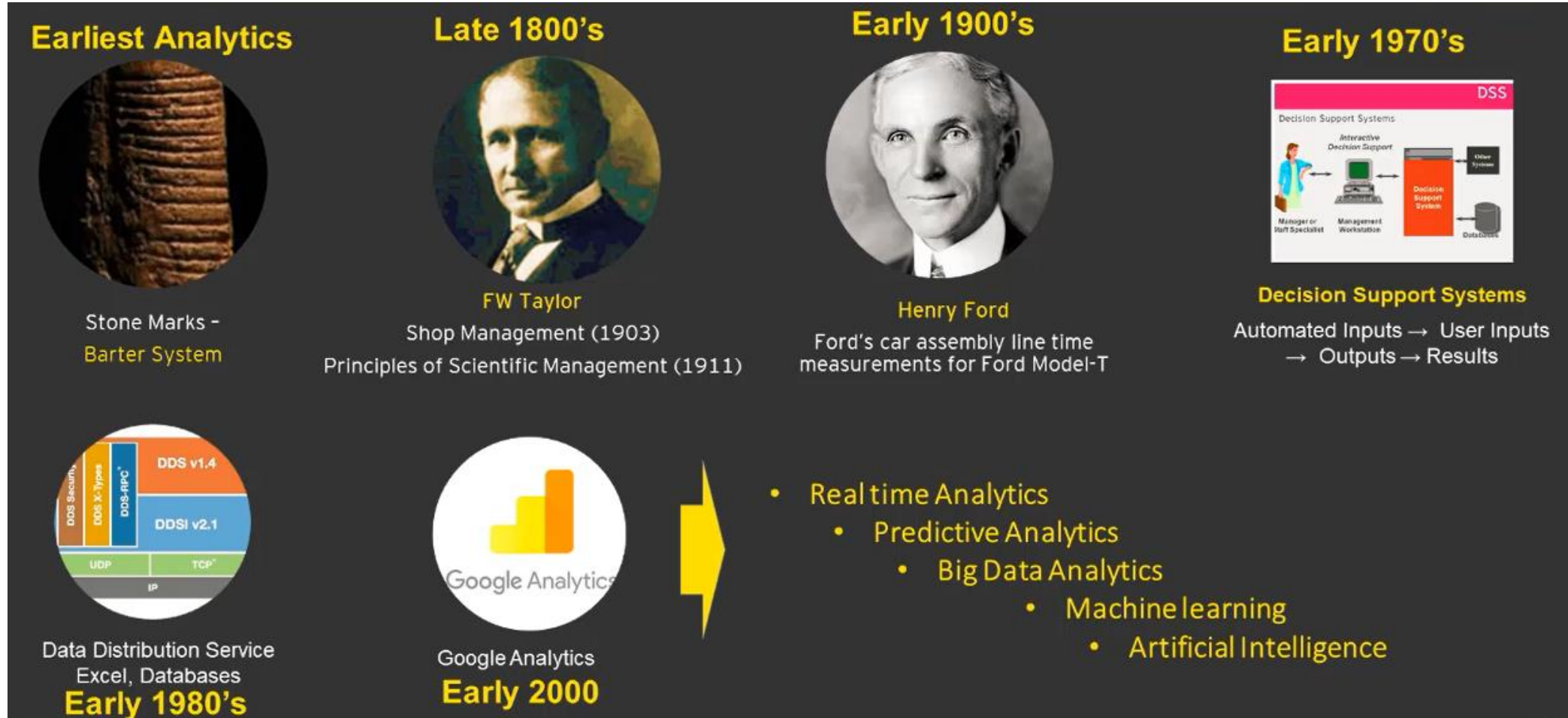
# Data Analytics and CSR

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- ▶ Data Management
- ▶ Monitoring the impact of CSR activities (Key performance indicators)
- ▶ Monitoring the CSR fund allocated and utilized in each sector
- ▶ Identifying outliers
- ▶ Track progress against CSR Strategy and Vision
- ▶ Publication of achievements



# Data Analytics - Evolution



# Data Analytics

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## When:

In any situation, where the result is:

- ▶ Not known
- ▶ Needs to be predicted
- ▶ Not meeting the requirements
- ▶ Needs improvements, etc.

## How:

Step 1: Data Collecting

Step 2: Compiling Data

Step 3: Analyzing Data

Step 4: Interpreting the data



# What is Data

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## WHAT

- ▶ Data are factual information used as basis for reasoning, discussion or calculation, often this term refers to quantitative information

## WHY

- ▶ A measure of 'where we are' is critical to determining 'where we should be'
- ▶ Have you reached where you intend to? --- only data answers that question
- ▶ A good data collection simplifies the problem solving effort
- ▶ If the solution costs more than the problem, it's not worth it. A good data collection should concentrate as much on measuring problems as it does on measuring solutions

Data collection is highly dependent on its '**objective**'

Eg.: Objective - To know the impact of CSR programs in the region

- ▶ Key Performance Indicators
- ▶ Disagree, Neutral, Agree - CSR program meeting the needs of the region

# Types of Data



## Example: What do we know about Arnold Schwarzenegger?

### Qualitative:

He is a body builder  
He has short hair  
He has lots of muscle

### Quantitative:

#### Discrete:

He has 2 legs  
He has 5 children

#### Continuous:

He weighs 113 kg  
He is 1.88 m tall

## Discrete Data

Discrete data is information that can be categorized into a classification. Discrete data is based on counts. Only a finite number of values is possible, and the values cannot be subdivided meaningfully.

Example: the number of students in a class  
(you can't have half a student).

## Continuous Data

Continuous data is information that can be measured on a continuum or scale. Continuous data can have almost any numeric value and can be meaningfully subdivided into finer and finer increments, depending upon the precision of the measurement system.

Example: Time in a race: you could even measure it to fractions of a second.



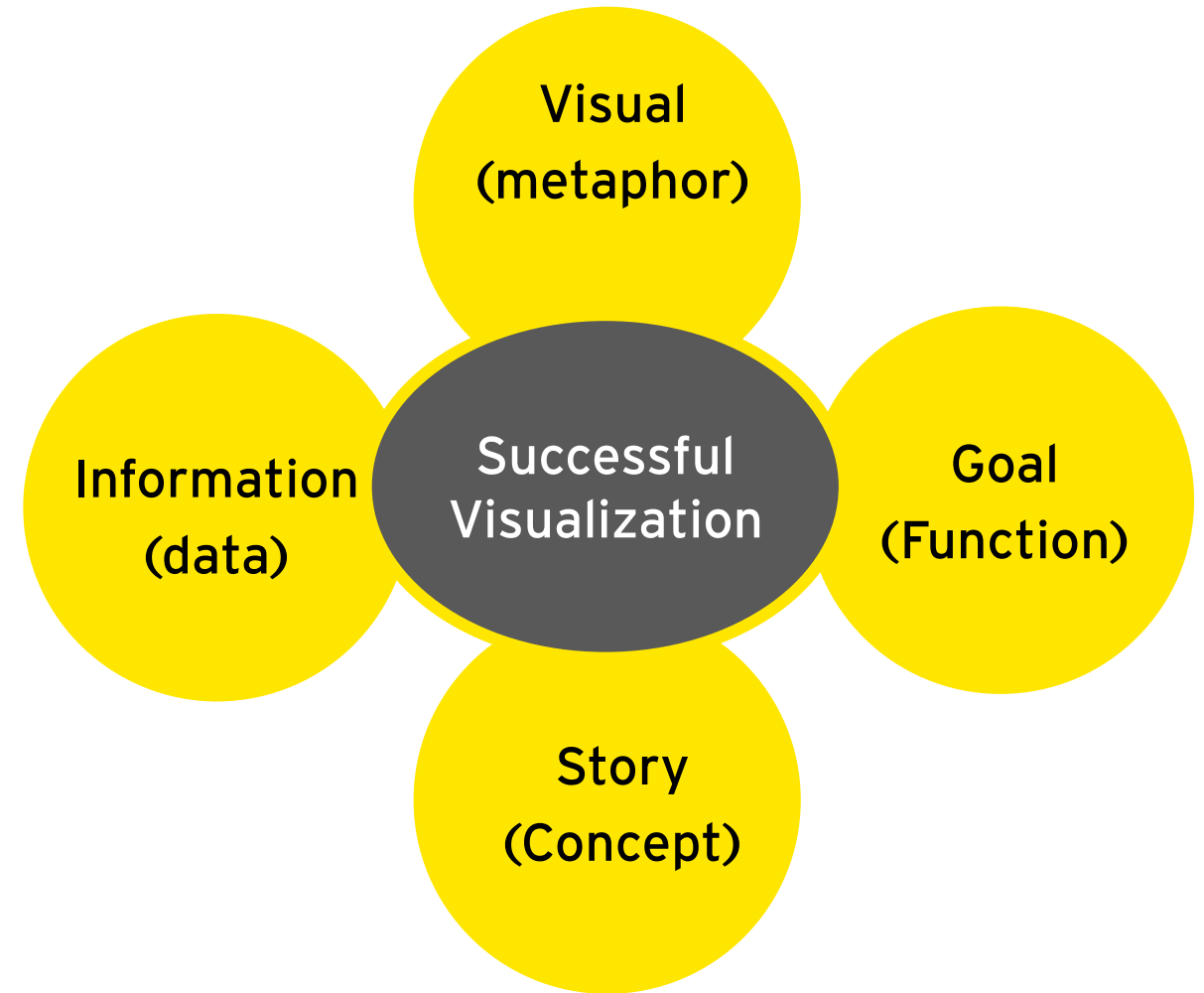
# Data Visualization

Data Visualization is a general term that describes any effort to help people understand the significance of data by placing it in visual context.

Patterns, trends and correlations that might go undetected in text based data can be exposed and recognised easier with data visualization software.

## Available tools for Data Visualization

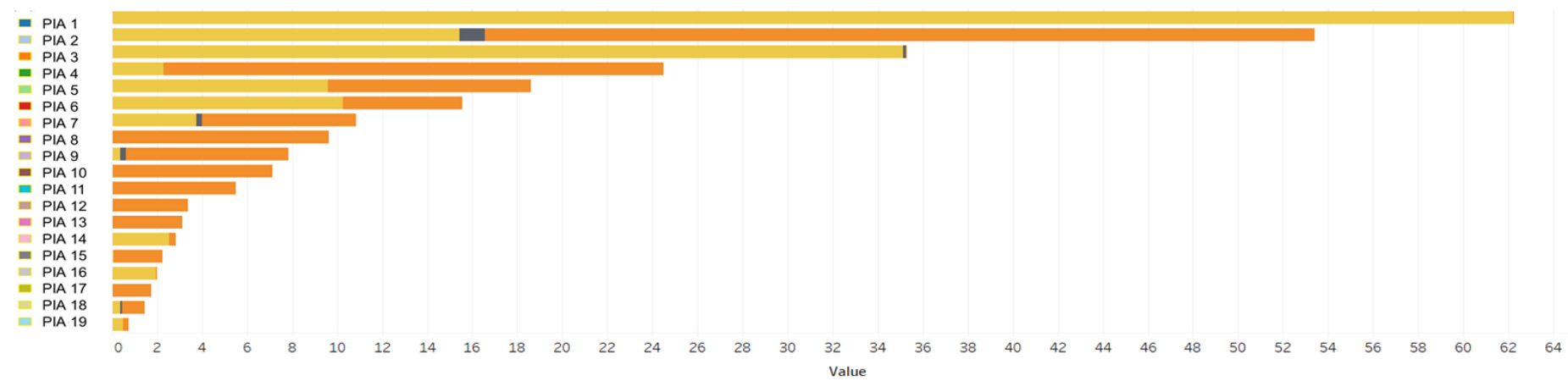
- ▶ Tableau
- ▶ Power BI
- ▶ Qlik view
- ▶ Fusion Charts
- ▶ High Charts
- ▶ Data wrapper
- ▶ Ploty
- ▶ Sisense
- ▶ Spotfire
- ▶ Datahero





# Illustrative Data Visualization

	KPI 1	KPI 2	KPI 3
PIA 1	0.000	0.000	62.227
PIA 2	36.855	1.142	15.420
PIA 3	0.000	0.130	35.110
PIA 4	22.200	0.000	2.310
PIA 5	9.000	0.000	9.610
PIA 6	5.280	0.000	10.263
PIA 7	6.840	0.228	3.771
PIA 8	9.647	0.004	0.000
PIA 9	7.251	0.224	0.385
PIA 10	7.147	0.000	0.000
PIA 11	5.462	0.060	0.000
PIA 12	3.368	0.000	0.000
PIA 13	3.113	0.010	0.000
PIA 14	0.294	0.010	2.536
PIA 15	2.160	0.000	0.101
PIA 16	0.000	0.000	1.969
PIA 16	1.739	0.000	0.000
PIA 18	1.025	0.056	0.393
PIA 19	0.230	0.000	0.505
Total	246.520	15.630	193.470



Total Footprint				PIA	KPI 1	KPI 2	KPI 3	PIA	KPI 1	KPI 2	KPI 3
				PIA 1	0.000	0.000	62.227	PIA 11	5.462	0.060	0.000
				PIA 2	36.855	1.142	15.420	PIA 12	3.368	0.000	0.000
				PIA 3	0.000	0.130	35.110	PIA 13	3.113	0.010	0.000
				PIA 4	22.200	0.000	2.310	PIA 14	0.293	0.010	2.536
				PIA 5	9.000	0.000	9.610	PIA 15	2.160	0.000	0.101
				PIA 6	5.280	0.000	10.263	PIA 16	0.000	0.000	1.969
				PIA 7	6.840	0.228	3.771	PIA 17	1.739	0.000	0.000
				PIA 8	9.647	0.004	0.000	PIA 18	1.025	0.056	0.393
				PIA 9	7.251	0.224	0.385	PIA 19	0.230	0.000	0.505
				PIA 10	7.147	0.000	0.000				

- KPI 1 - Water Potential - Supply side subjected to Rainfall
- KPI 2 - Water Potential - Supply side yet to be Subjected to Rainfall
- KPI 3 - Water Potential - Demand side

- 45%  
- 1%  
- 54%



# Illustrative Dashboard

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[Link to the dashboard](#)

**Thank you**

