



ADVANCING  
PUBLIC  
TRANSPORT

# ROLE OF DATA ANALYTICS

Supported by



Local Host



INDIA

Luc van Wijngaarden  
Zight – transit | data | intelligence

**UITP – DIMTS Bus Seminar**  
11-12 May 2018, Delhi

**UITP**

# BUSINESS INTELLIGENCE (BI)

Applications, infrastructure, tools & best practices that enable access to and analysis of information to improve decisions & performance.

[Gartner IT Glossary]



# KEY ITEMS

1. What is the power of data analytics?
2. How to get from data to results?
3. Why do projects fail?
4. Six tips for success

# ZIGHT – INTRODUCTION



transit | data | intelligence

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**nutritious data is wasted**



# EACH SOURCE ADDS VALUE

Fleet management  
Planning  
Ticketing  
Asset mgmt  
Fuel mgmt  
Rostering  
Maintenance  
Payroll system



Passenger counting  
ERP system  
ITCS/ RTPI  
Control  
Dispatching  
Finance  
Weather  
Social media

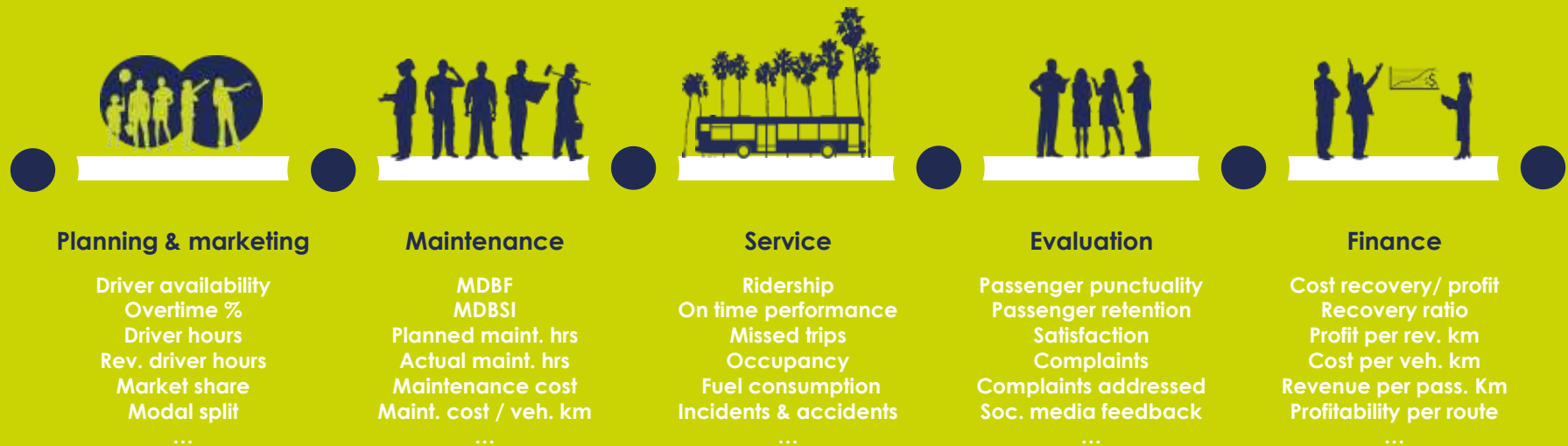
There is so much data ... with so much potential.



# DATA FLOW



# YOU CAN MONITOR IT ALL



**Top to bottom; planning to satisfaction.**

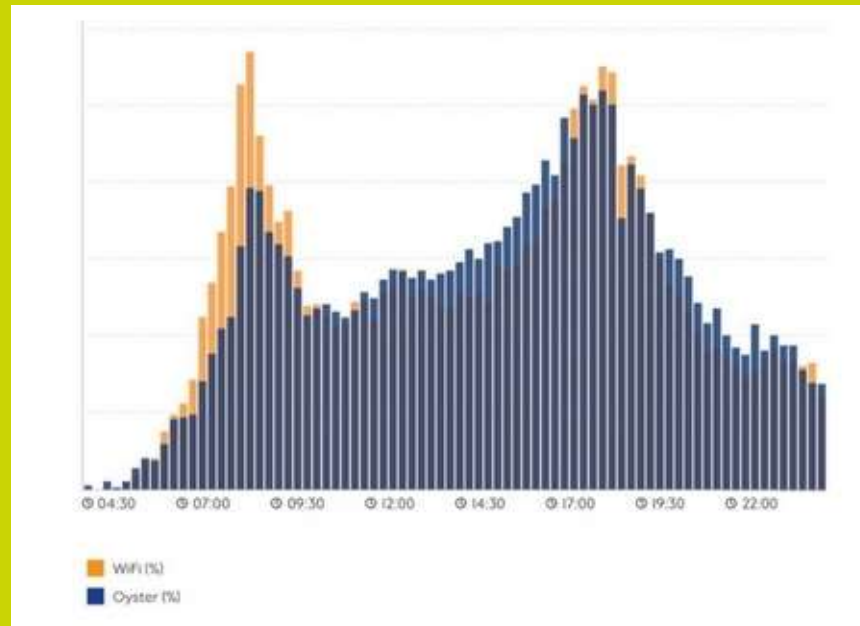


# UNLIMITED FUNCTIONALITY



You can unlock information in spectacular visuals.

# USAGE-ANALYSIS FROM WIFI



Analysis can be done upon 'odd' data.

# BUT WHAT IS THE ROLE OF DATA ANALYTICS?

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# INTELLIGENT OPERATORS

## Intelligent operators ...

- Make the best use of information for **strategic, tactical, and operational** needs.
- Provide people with **information, support and governance** to do their jobs more effectively and efficiently.
- Perform better.
- Are more profitable.
- Have happier employees & passengers.
- Manage their work better.
- Are more innovative.

# WHAT IF ALL IS AVAILABLE?

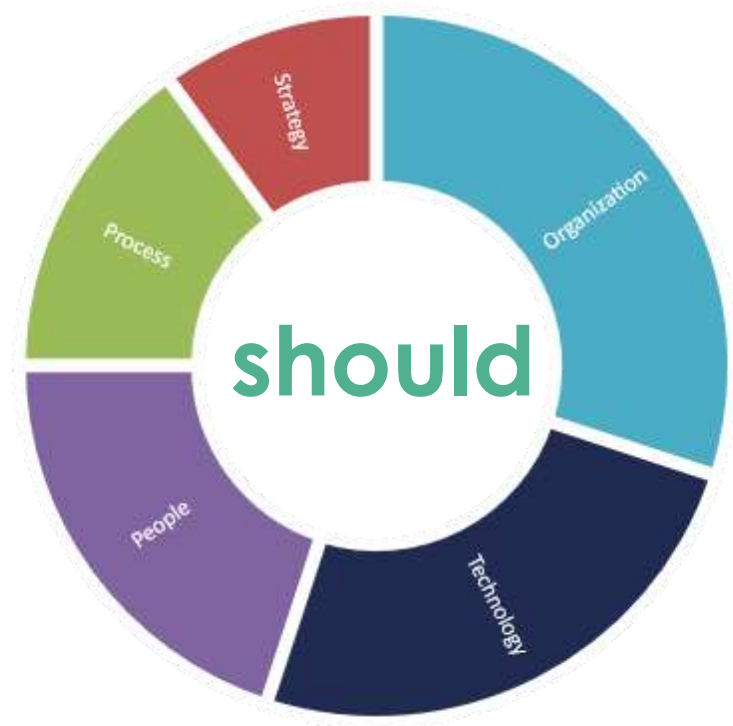
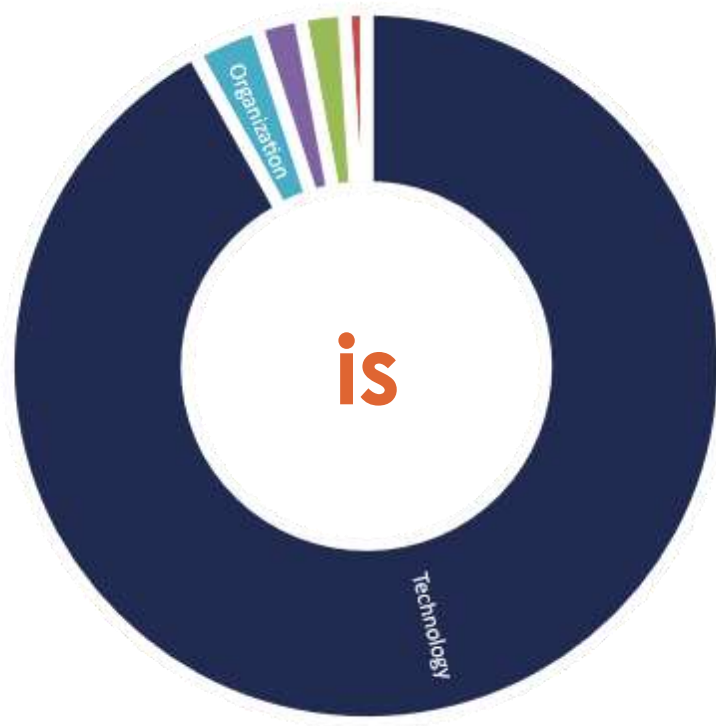
		Current	Expectation	Potential	Delta	
Cost	Salary	10.00 M	-7,5%	9.25 M		
	Fuel	10.00 M	-7,5%	9.25 M		
	Maintenance	10.00 M	-10%	9.00 M		
	Other direct	5.00 M	0%	5.00 M		
	Indirect	10.00 M	0%	10.00 M		
	Total cost	45.00 M		42.50 M	-2.50 M	-6%
Revenue	Consumers	20.00 M	+5%	21.00 M		
	Business	4.00 M	+20%	4.80 M		
	Total revenue	24.00 M		25.80 M	1.80 M	+8%
Cost recovery		53%		61%		+14%

\* based upon surveys in Amsterdam, Bangalore, Brussels, Dubai, Istanbul, Stockholm & Kuala Lumpur

**70% of all BI-projects fail  
to meet expectations.**

**[Gartner]**

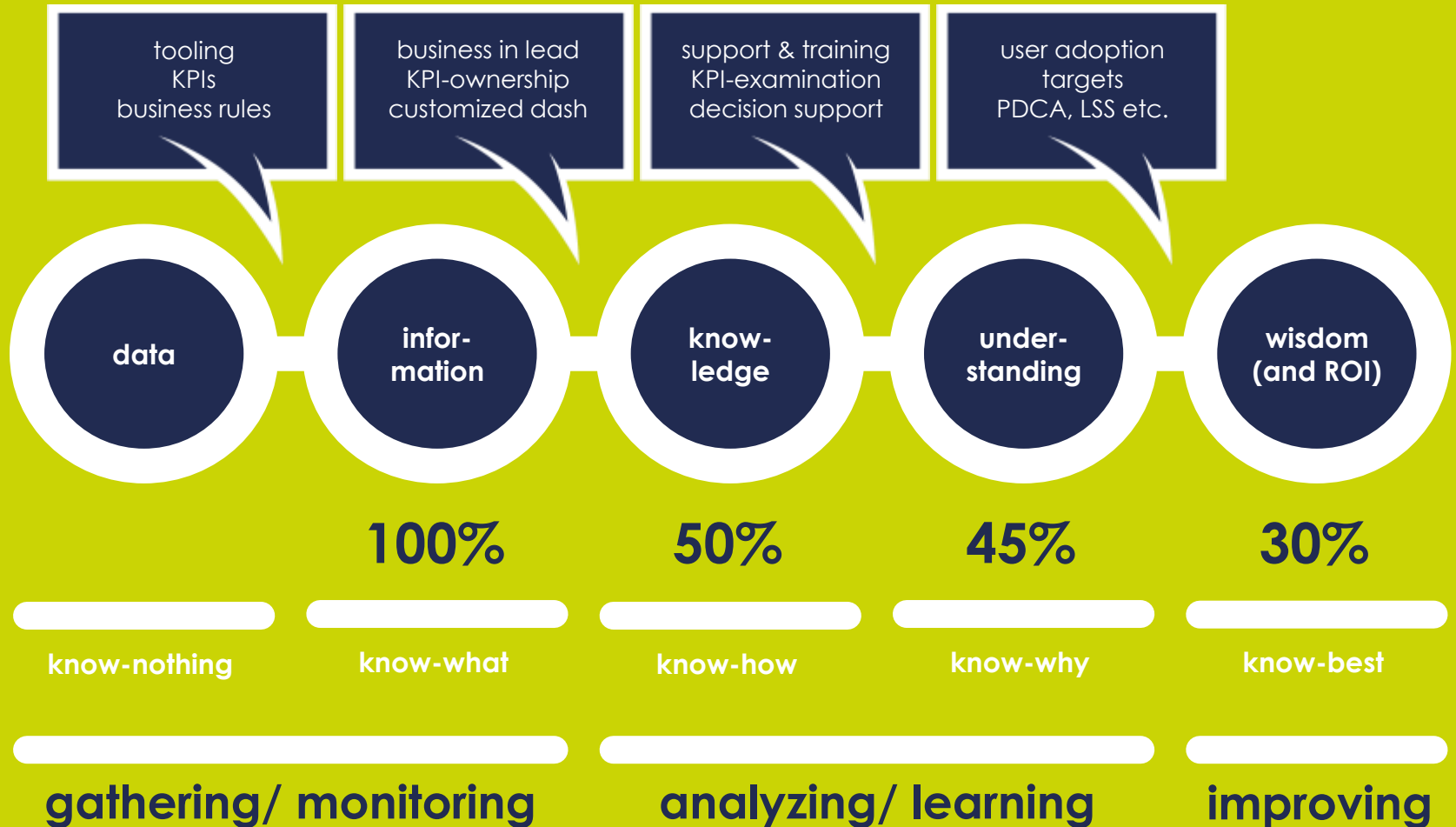
# WHY DO PROJECTS FAIL?



IBM survey, 2015



# DATA ANALYTICS IS CRUCIAL



# 6 TIPS FOR BI-SUCCESS

1. Put business in the lead.
2. Align KPIs with your strategy and processes.
3. Make sure KPIs are owned, examined & managed.
4. Deliver self-service, and empower users.
5. Deploy BI thoroughly (PDCA, LSS, ...).
6. Make ROI the final deliverable ... not the system.

# THANK YOU!!

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