



How to Become a Data Driven Organization (DDO)

By:

Vala A. Rohani

Founder of Data Corner
PhD of Computer Science
Post Doctorate in Data Science
vala@data-corner.com

18th June 2019, IPS Setubal Portugal



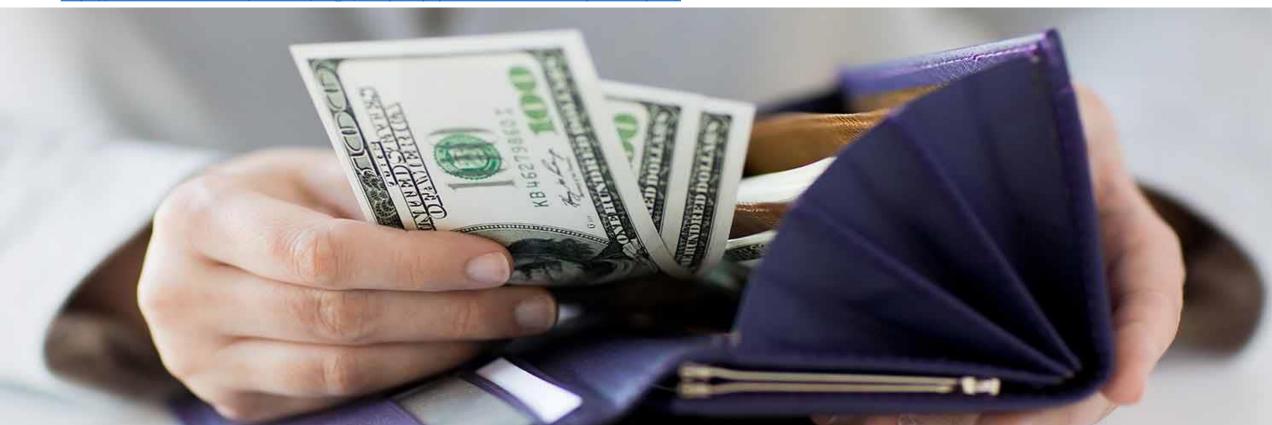
Why DDO?



Analytics pays back \$13 for every \$1 spent.

Reference:

https://nucleusresearch.com/research/single/analytics-pays-back-13-01-for-every-dollar-spent/





Why DDO?



In Vodafone, they reduced the cost of each process order **from** \$3.22 /PO to \$2.85 /PO, by applying analytics.

Also, in addition to the increase in perfect purchase orders to 85%, time to market improved by 20%.

Source:

https://www.celonis.com/case-studies/vodafone-orders-up-process-mining-to-make-procurement-more-efficient/

In EISSMANN, they used process mining to detect the problematic process steps, and completely eliminating them.

This has improved the entire process and reduced throughput times by 30 percent.

Source:

https://assets.ctfassets.net/zmrtlfup12q3/4nl9KdvnaUQsMmEOMKmcG4/54008084bbb81f1ec29b9e5f223412dc/Celon is Eissmann - Success Story.pdf

In DHL, They applied analytics to reduce the audit time by 25% in comparison to classical data analytics.

In addition, they are now able to identify unknown risks in processes, which helps to add more value to the audits.

Source:

https://www.celonis.com/case-studies/vodafone-orders-up-process-mining-to-make-procurement-more-efficient/









What is NOT DDO?





Having Lots of reports does not make you data driven!



What is **NOT** DDO?





Having Lots of dashboards does not make you data driven!



What is NOT DDO?





Having BIG Data clusters does not make you data driven!





What really **S DDO?**





Data vs Information vs Insights







4 Angles of Actionable Insights





2) How will the specific action improve the business



3) Who is responsible for the action?

4) By when should the action be performed?





Do not get trapped in your Data and Reports - 71



Be an Analytics Ninja because ...







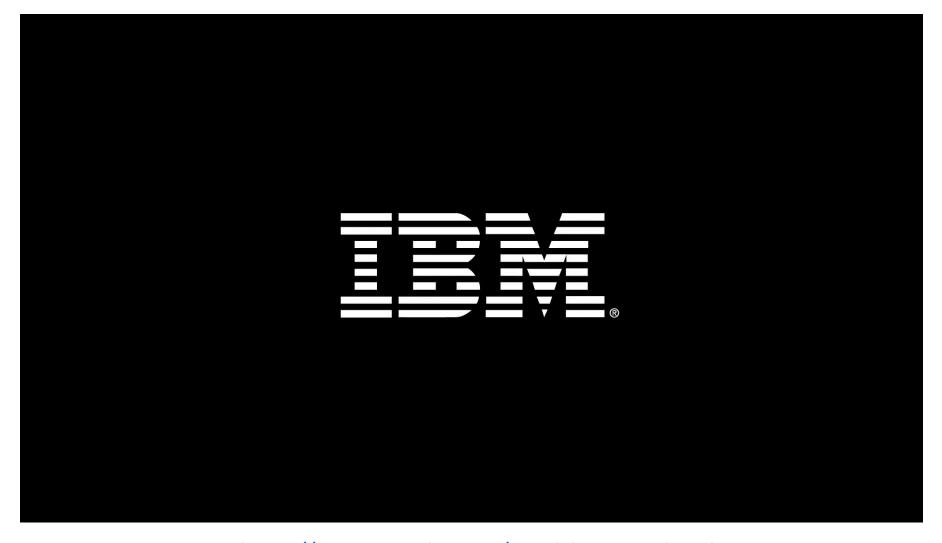
Actions drives business forward





How to generate Actionable Insights?





https://www.youtube.com/watch?v=tsq8tokyKSk







To become DDO, you need to create a **Data-Driven Culture** in your organization







Aligning Analytics with business strategies

Executive level involvement

Data Governance Policies

Utilizing required analytics technologies

Data Driven Culture

Goals first!

Continues Talent Upskilling

Iterative analytics process

Data Democratization



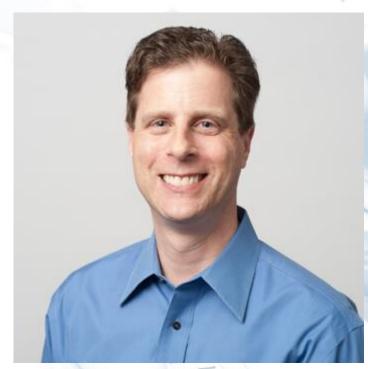


"Analytics is about the impact ...

If you have brilliant insights and you did great research,

and no one changes in your organization,

You get zero credit!"



Ken Rudin Facebook Analytics VP





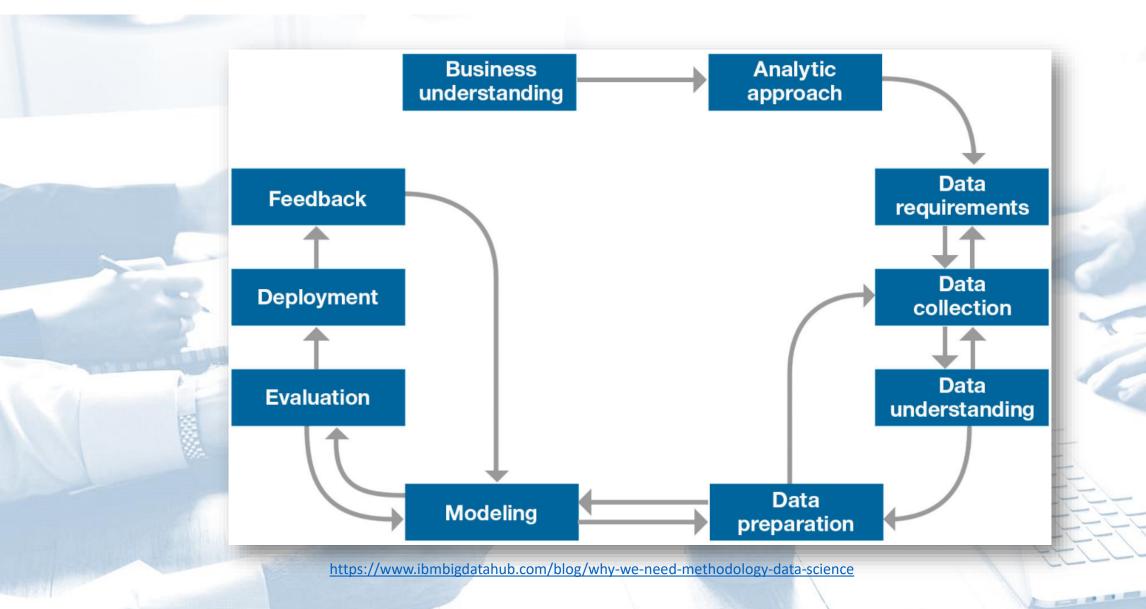
What is

Data Science Methodology?



Data Science Methodology









What skills you need to become Data Scientist?





BASIS

CORE

ENABLEMENT

TECHNICAL SKILLS

- CODING SKILLS
- HANDLING DATA
- COMPUTATIONAL TOOLS
- BASIC SOFTWARE DEVELOPMENT
- BIG DATA
- HIGH PERFORMANCE COMPUTING
- PARALLEL COMPUTING

TECH-SAVVY

ANALYTICAL SKILLS

- ADVANCED STATISTICS & INFERENCE
- MODELLING & SIMULATION
- MACHINE LEARNING
- COMPUTER SCIENCE
- ADVANCED MATH
- DATA VISUALIZATION
- EXPERIMENT DESIGN
- RESEARCH EXPERTISE

SCIENTIFIC PROBLEM SOLVING

BUSINESS SKILLS

- DEVELOPMENT OF BUSINESS CASES
- PROJECT MANAGEMENT
- BUSINESS PROCESSES
- CHANGE MANAGEMENT
- COMMUNICATION SKILLS
- LEADERSHIP SKILLS

APPETITE FOR BUSINESS PROBLEMS

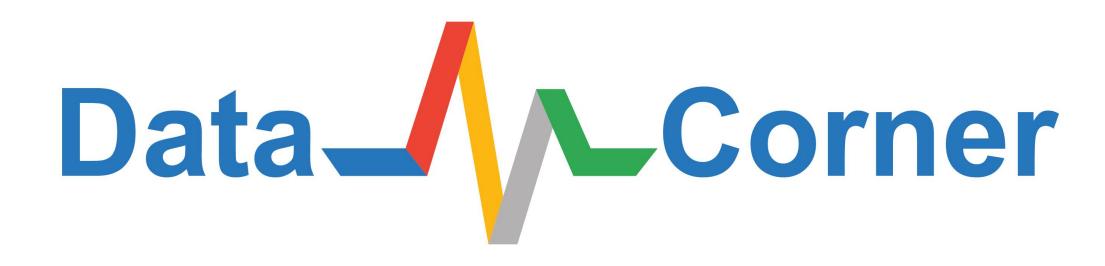
https://www.datasciencecentral.com/profiles/blogs/data-scientist-skill-set







What we do in





How we help our clients to be DDO



Ana has already heard about the usefulness of Data Analytics, and she is curious to know how to apply it in her own company to boost its business performance. She wants to have a data driven organization



David wants to build an in-house Data Science team in his company. So, he needs an effective upskilling plan aligned with the company's strategies and future analytics projects.



Sara wants to know what is her company's sentiment in social media? How customers talk about the products and services? What are the spaces to improve? And, what is the level of sentiment for other competitors?



Our Big Data Analytics Solutions

Scenario #1 (Applied Analytics)

To help Ana having a data driven organization and boosting her business performance. In doing so, she needs to gain actionable insights through analyzing her company's data.





Analytics Awareness Workshop



Domain Study &

Identifying Business Problems



Data Collection &
Data Cleaning



Data Analysis

- Descriptive Analysis
- Diagnostic Analysis
- Predictive Analysis
- Process Mining
- ONA
- Exploratory Analysis



ETL
Design & Implementation



Building Analytics War Room



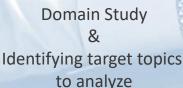
Our Big Data Analytics Solutions

Scenario #2 (Sentiment Analysis)

To help Sara hearing the customers' voice through a comprehensive Social Media Analytics solution including Sentiment Analysis, Emotion Mining, Influencers Network, and Topic Detection.









Social Media Listening



Data Cleansing



Social Media Analysis

- Sentiment Analysis
- Emotion Mining
- Topic Modeling
- Influencers Detection
- Word Cloud Analysis



Updating the online dashboards



Generating
Actionable Insights



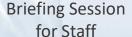
Our Big Data Analytics Solutions

Scenario #3 (ATU Program)

To help David upskilling the analytics knowledge of his staff, and build an in-house data science team in his company. To this end, the first step is assessing the existing level of analytics skills, and then planning to fill the gaps.









Online Analytics Skills
Assessment



P2P Interviews



Assessment Result Analysis & Ide

Generating the skill graphs for every single person



Training Planning &
Identifying Capstone Projects
on Company Data



Conducting
Target Analytics Courses

- Analytics for Management
- Data Science Courses
- Data Engineering Courses
- Data Visualization
- Big Data Courses
- R & Python
- Deep Learning
- Block chain
-



Contact us

Website: www.Data-Corner.com

Email: contact@Data-Corner.com

Portugal Office: IPStartUp, Casa do Professor, Campus do IPS-Estefanilha,

2910-761 Setúbal, Portugal

Phone: +351 91 4762565

Malaysia Office: No 32-01, Level 32, Tower B The Vertical Corporate Towers,

Avenue 10, Bangsar South, No 8, Jalan Kerinchi, 59200

Kuala Lumpur, Malaysia

Phones: +603 2786 7410 / +601123005359

