

The 2nd Conference of Belt and Road Initiative Tax Administration Cooperation Forum

-Digitalization of Tax Administration

7-9 September 2021



Implementation of Data Analytics In Directorate General of Taxes

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CONTENTS

01 / Data Analytics
02 / Compliance Risk Management Transfer Pricing
03 / Smartweb
04 / Ability to Pay



Part 01 Data Analytics

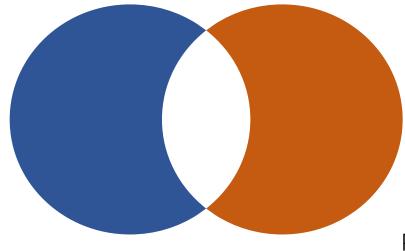


Big Data Analytics

Big Data

Capacity to capture, gathering, store, accessing, and analyze high volume, high velocity, high variety data structured and unstructured.

Data Warehouse, ETL Workbench, Webscraping, Graph Database



Analytics (Data Science)

Capacity to extract valuable knowledge/ pattern / insight / model from data

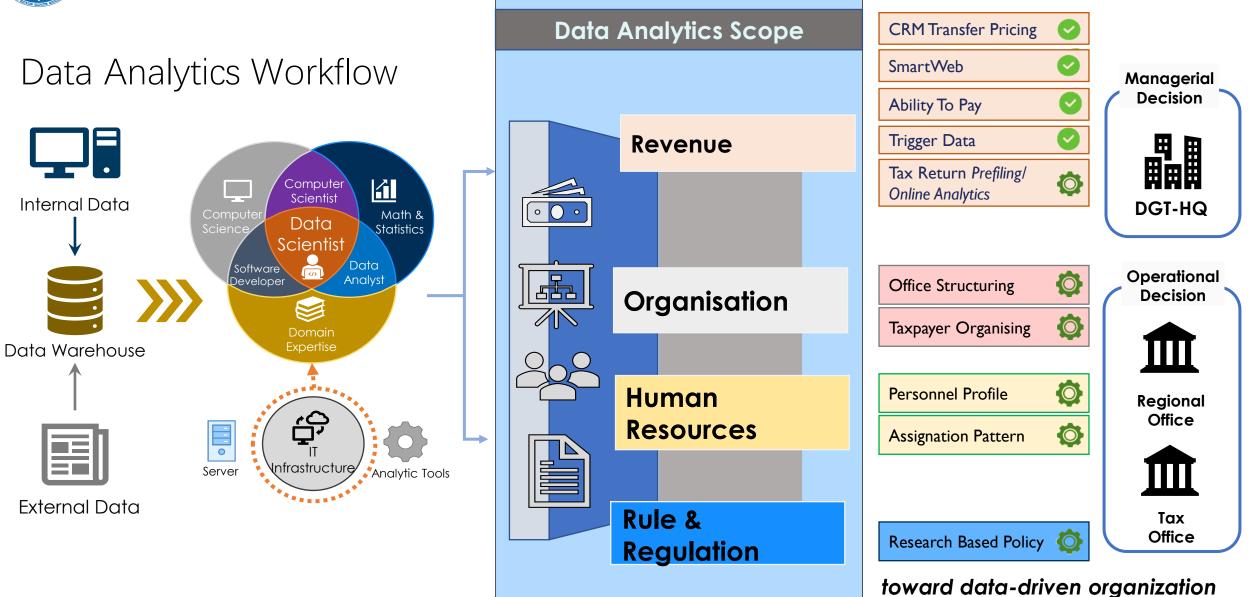
Python, Machine Learning, O Data Visualisation, Business Inteliigence

Factors	Big Data	Analytics (Data Science)					
Concepts	Handling large data	Analyzing data					
Responsibility	Process huge volumes of data and generate insights	Understand pattern within data and make decisions					
Industry	Telecommunication, e-commerce	Sales, advertisements					

Big Data Analytics = Big Data + Data Science

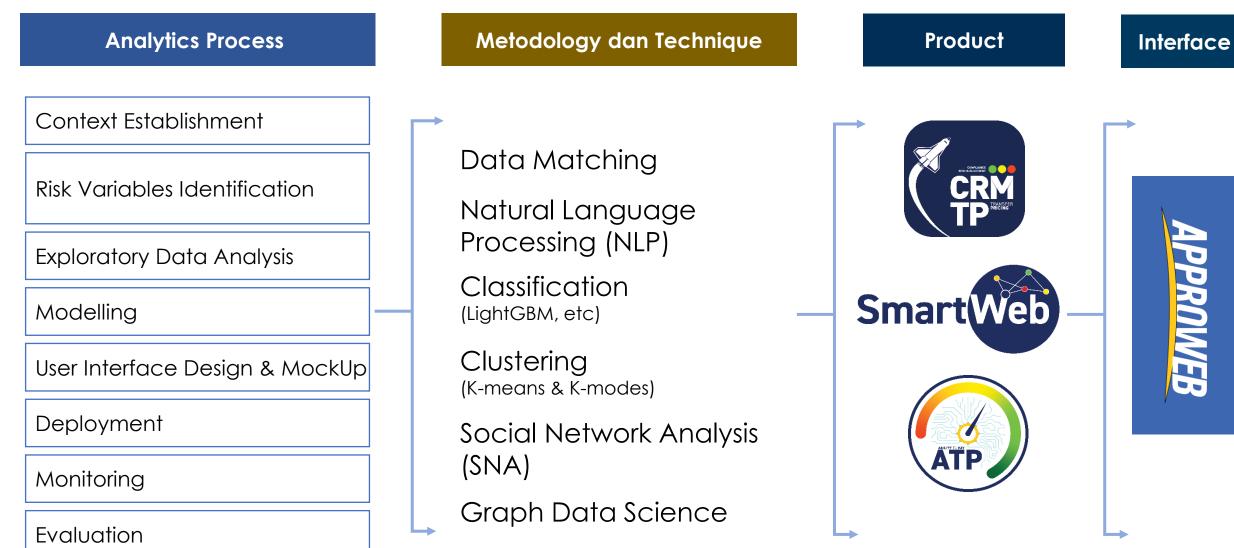
BRITACOM

BUILDING A GROWTH-FRIENDLY TAX ENVIRONMENT





Development on Revenue Data Analytics





Part 02

Compliance Risk Management Transfer Pricing



Compliance Risk Management Transfer Pricing





Risk Map:



Detailed Risk Profile:

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Use to tackle BEPS issues (esp. in accordance with BEPS Action Plan 8, 9, 10)

Provide managerial overview:

- Nation-wide
- **Regional Office** -
- Tax Office

about number of Taxpayer in High, Medium, and Low Transfer Pricing Risk

Fit each taxpayer with affiliated transaction into 9 group with different level of risk. It also can be viewed in tabular format.



Output: Prioritisation over which

taxpayer to be analysed further regarding Transfer Pricing based on the risk



Outcome: Improving tax compliance

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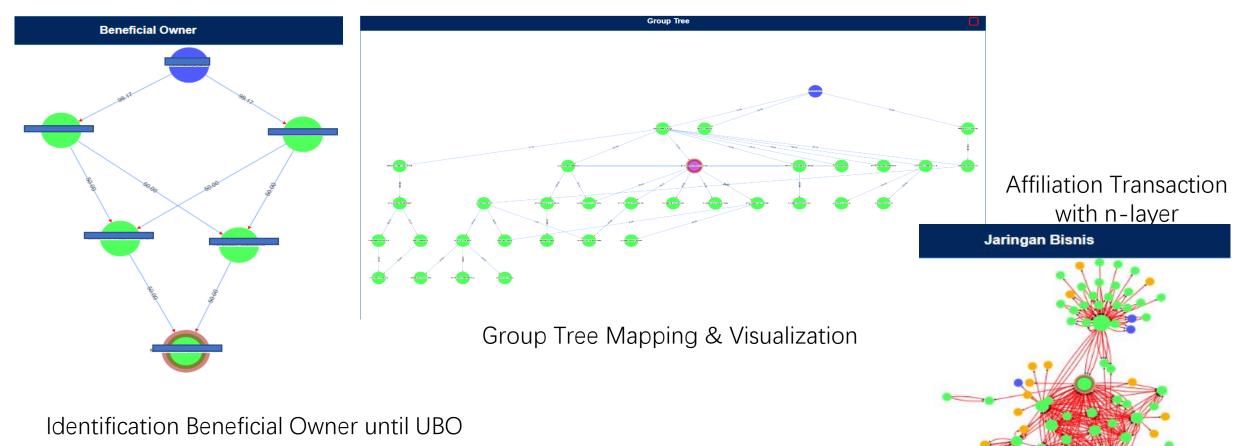
Provide current and historical level of risk, next best action recommendation, variables of non-compliance and case guidance, list of affiliated transaction, and transaction schema (Smartweb)



Part 03 Smartweb

SmartWeb

The **graph database analytics** – which will be used to represent complex networks – to handle terabytes of data relating to entities (nodes) and their relationships (edges).



Smartweb can handle predicting and identification BO until UBO, mapping the group and visualise their relationships.



Part 04 Ability Two Pay

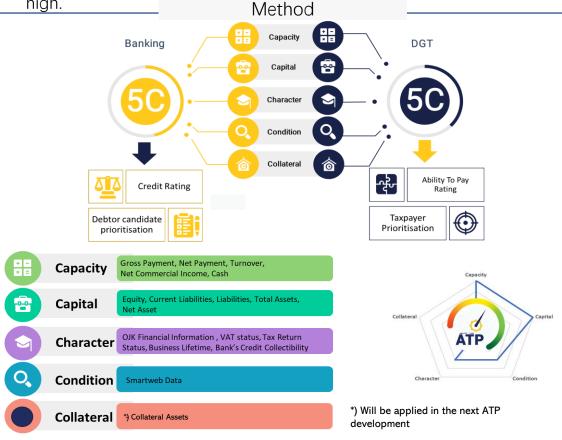


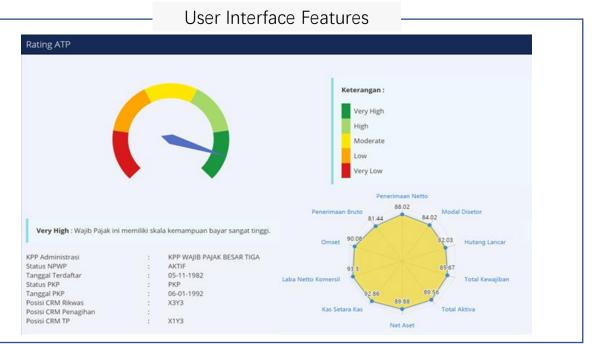
Ability To Pay (ATP)

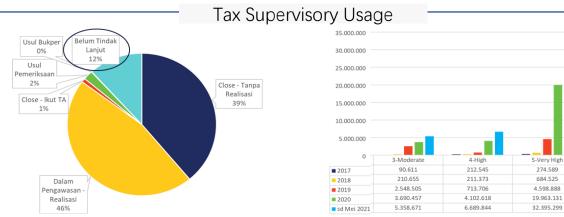


ATP is an indicator that provides a predictive of taxpayers' ability to pay based on historical data

ATP uses scoring based on 5C analysis (Capacity, Capital, Character, Condition and Collateral) to provide an overview of taxpayers' ability to pay which is divided into 5 levels, namely very low, low, moderate, high, and very high.







There are **129.105** taxpayer supervisory analysis that have not been followed up with **Moderate-Very High ATP Level** and total **initial potential** more than **Rp81 billion** that should be prioritised



THANKS

