



We got a glimpse on what Extractive Data Portal is



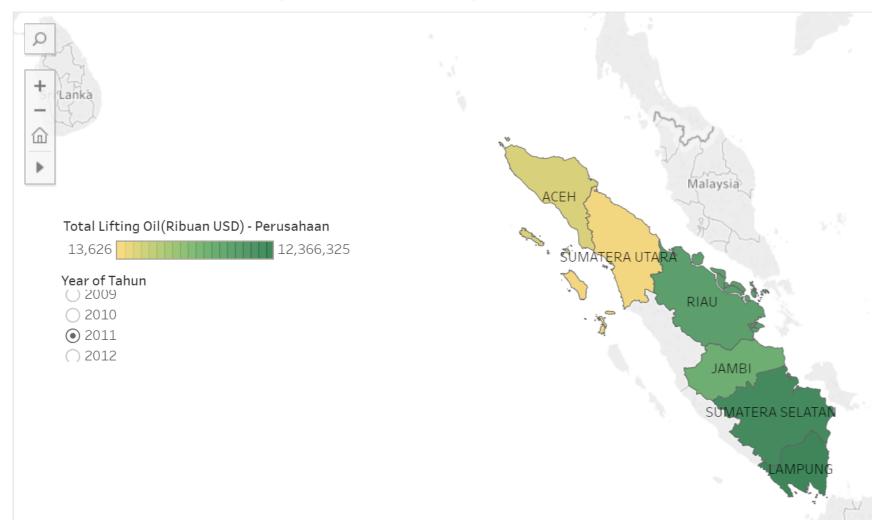
But how can we get something out of it?

The Principle

- Define the problem
- Make informed guess
- Crunch the data
- 4 Put a story around the crunched data
- Let others know what you have done (and go back to No. 1)

Example 1 – Oil Lifting in Sumatra Dashboard

Sumatra Total Lifting Oil (in Thousands USD) 2014

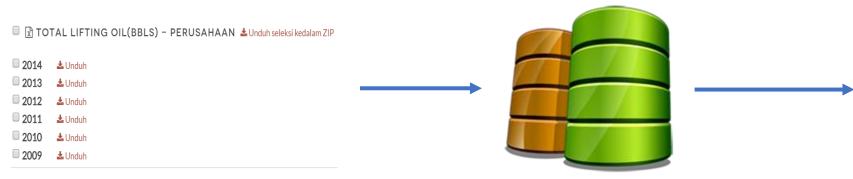


Link: http://bit.do/liftingsumatra

Example 1 – How do we do it?

THE PRINCIPLE	ACTION
Define the problem	The policy makers have been discussing on the declining oil production in Indonesia. We would like to know how the trend is in Sumatra, home of oil producing regions
Make informed guess	Oil production is indeed declining though Riau remains major producer
Crunch the data	Extract the Oil Lifting per Company from 2009 – 2014 and aggregate it per Province, while only visualizing the Sumatran part of the data
Put a story around the crunched data	What would be the implication of declining oil production, especially in provinces that rely its income solely on oil? The story is getting interesting if we analyze the public investment these provinces have been doing over the past few years and measure the outcomes of those investment.
Let others know what you have done	What would be the possible follow up after this analysis? Do you think putting education and health investment angle with this story can be a good start to build stronger narrative over oil money in the region?

Example 1 – More on data crunching



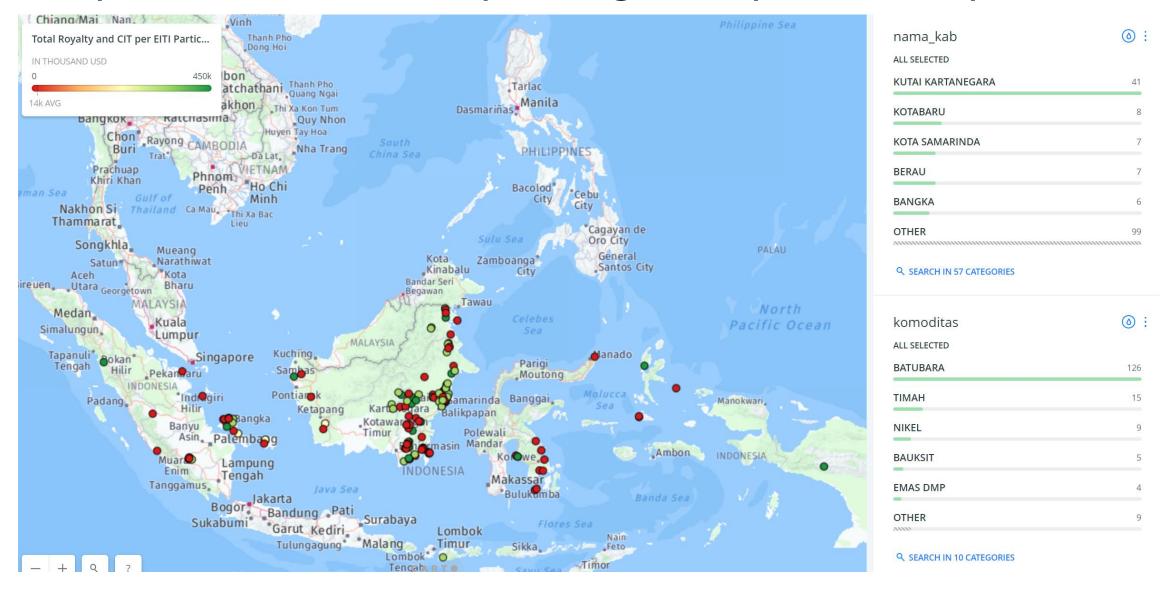
Extract Oil Lifting Data per Company from the Portal

Clean and structure the data into flat time series file



Visualize the data using Tableau

Example 2 – The EITI Reporting Companies Map



Link: http://bit.do/eitimap

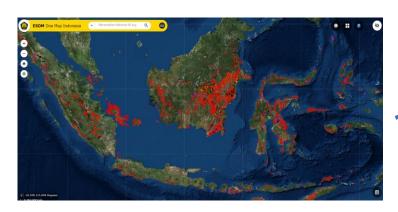
Example 2 – How do we do it?

THE PRINCIPLE	ACTION
Define the problem	There seems to be great disparity of revenue among EITI reporting entities. Only really few companies that contribute to government revenue from mining
Make informed guess	It seems that companies that operating in Kalimantan and Papua that contributes the most
Crunch the data	Extract the royalty and CIT (Corporate Income Tax) per company data, merge it with ESDM One Map Data, and plot it into a map
Put a story around the crunched data	After plotting the map as well, most reporting entities in EITI operate in Eastern Side of Kalimantan. What do you think the implication of this moneymaking companies to the environment in the Eastern Side of Kalimantan?
Let others know what you have done	What would be the possible follow ups from the first round of this analysis? What aspects would you like to deeper-dive?

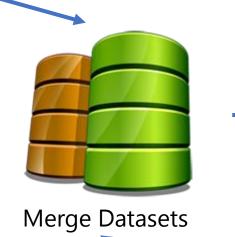
Example 2 – More on data crunching



Data from Portal: Deviden, Landrent, Royalti, PPh, PBB, etc



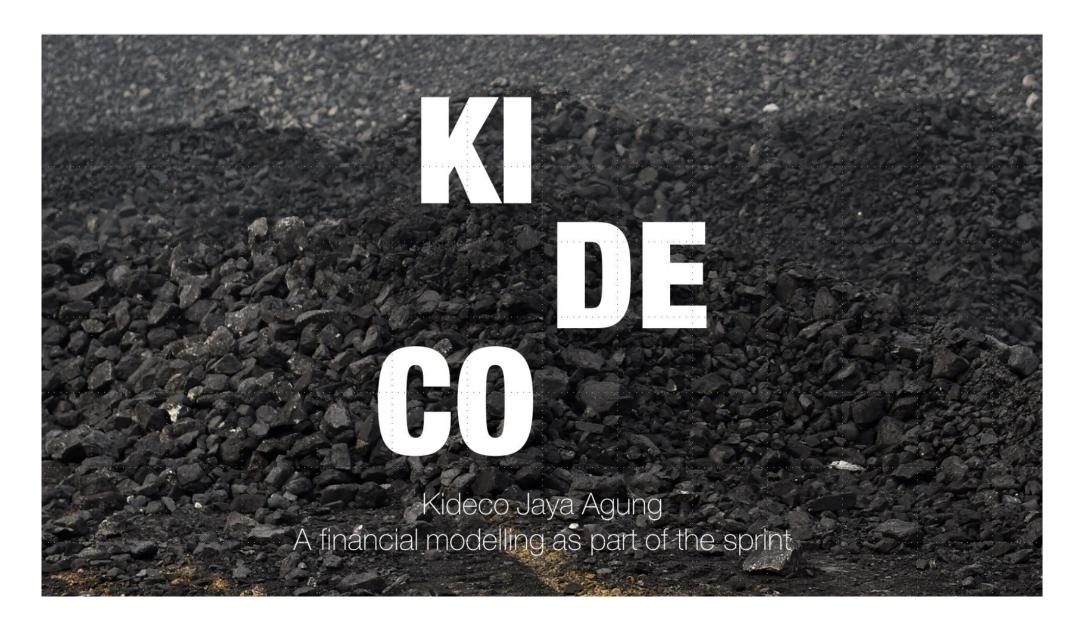
Geospatial Data from ESDM One Map





Visualize the data using Carto

Example 3 – Kideco Jaya Agung Financial Model



Example 3 – How do we do it?

THE PRINCIPLE	ACTION
Define the problem	We would like to understand more how Kideco Jaya Agung (one of the largest coal producer in Indonesia) makes money, and how changes in coal price and fiscal regime affect company's performance and its contribution to state budget
Make informed guess	The company has been active in doing corporate action and this affects its payment to government
Crunch the data	Using mainly corporate financial reports, international coal prices, local coal price, and EITI information especially PPh and PHT
Put a story around the crunched data	The model can serve as a tool for policy makers when negotiate with companies and to better comprehend how changes in fiscal regime affect revenues from companies
Let others know what you have done	What would be the possible improvements for the model? How the model can be more accurate?

Example 3 – More on data crunching



Data from Portal: PPh and PHT



Company's Financial and Annual Report



Coal Prices from various website and sources



Combine everything in the Model



Build the narrative to make sense of the model

What can you do with Extractive Data Portal

- Complement your data
- Validate claims
- 3 Enrich the analysis and dashboard you build

Some issues with Extractive Data Portal

1 Time lag

The universe of extractive datasets

3 Yes, it is complex

Feel free to ask any question ©