



XXVII FIG CONGRESS

11-15 SEPTEMBER 2022
Warsaw, Poland

Volunteering
for the future –
Geospatial excellence
for a better living

SABAH GEO HUB DRIVING THE MODERNISED SDI

PRESENT BY:

SAFAR UNTONG
STATE SECRETARY OF SABAH STATE GOVERNMENT
Safar.Untong@Sabah.gov.my

DORIA TAI
DIRECTOR OF DIGITAL GOVERNMENT DIVISION
SABAH STATE PUBLIC SERVICE DEPARTMENT
Doria.Tai@sabah.gov.my

FIG CONGRESS 2022 11-15 SEPTEMBER 2022
IN WARSAW, POLAND AT DOUBLETREE BY HILTON HOTEL & CONFERENCE CENTRE WARSAW

ORGANISED BY



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SABAH, MALAYSIA
(North Borneo)

Mount Kinabalu,
the highest mountain
in Southeast Asia



65% of Sabah's land mass is still forested. More than 3.8 million hectares of forests have been legally gazetted as permanent forest reserves, parks and wildlife conservation areas

Rafflesia arnoldii,
the world's largest
individual flower

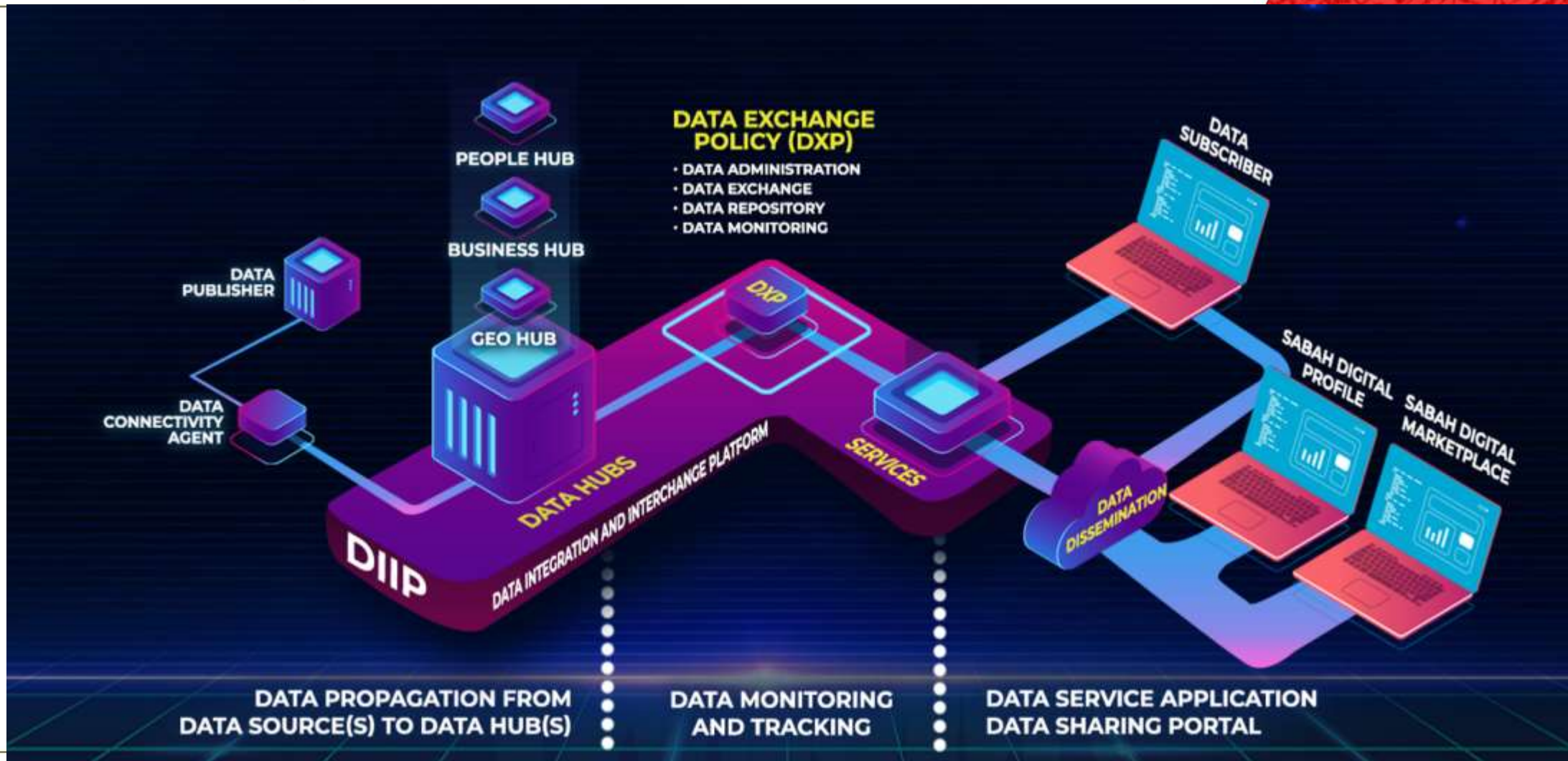


SABAH
THE SECOND LARGEST STATE IN MALAYSIA



Sipadan,
one of the best dive
spots in the world





SABAH GEO HUB

SABAH GEO HUB WORKS ALONGSIDE PEOPLE AND BUSINESS HUB TO SUPPORT DIGITAL GOVERNMENT WITH MORE INTEGRATED DATA



DATA STORE



APPS STORE



3D SABAH



SANDBOX LE



The future is digital and the impact of geospatial can be felt across all sectors



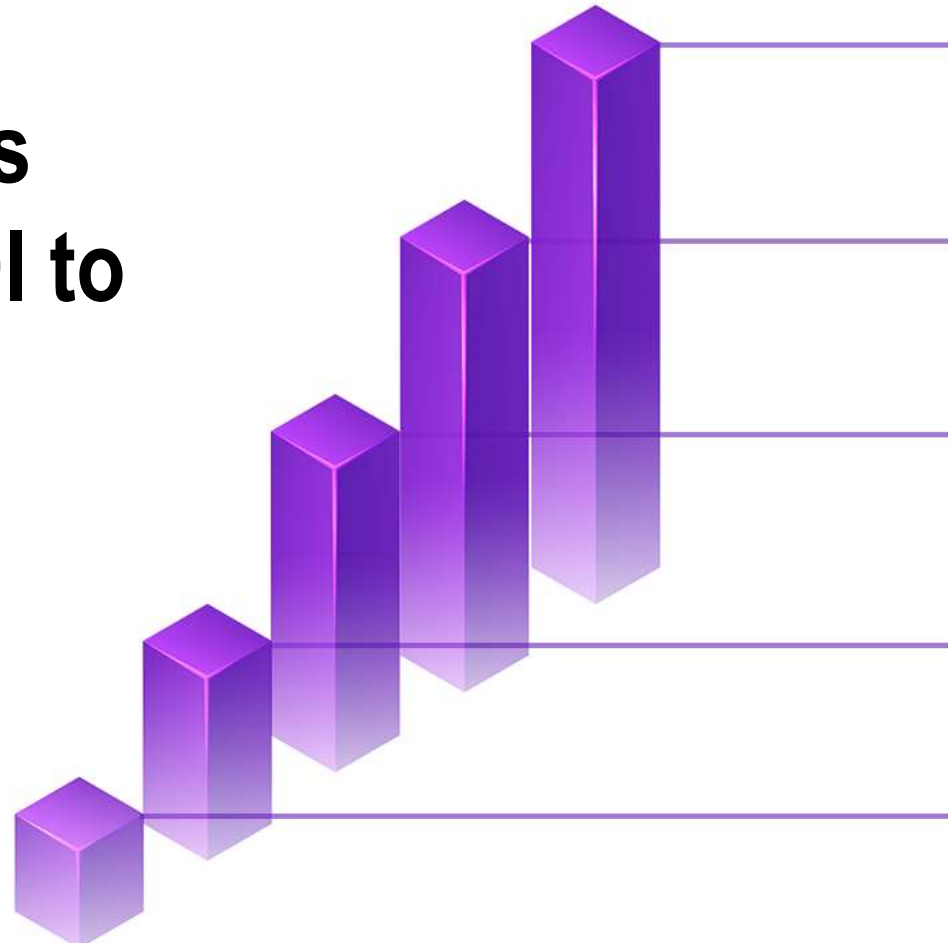
DATA HARMONISATION

SABAH DIIP SABAH DATA INTEGRATION & INTERCHANGE PLATFORM



- **G2G**
GOVERNMENT-TO-GOVERNMENT
- **B2G**
BUSINESS-TO-GOVERNMENT
- **C2G**
CITIZENS-TO-GOVERNMENT

Sabah Geo Hub is evolving from SDI to support digital transformation



2023

Developing AI-powered GeoIntelligence

2022

Integrating with GeoProcesses

2021

Implementing Automations

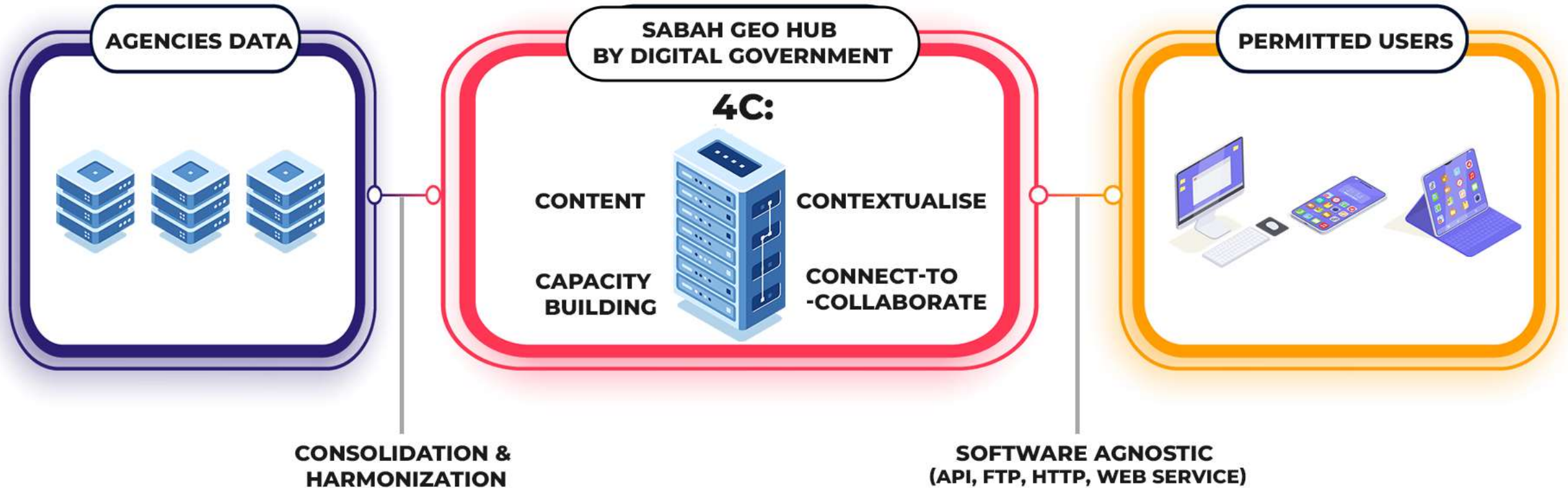
2020

Introducing Data Lifecycle Management

2000

Sabah SDI

Sabah Geo Hub will put together resources to support actions or activities revolving around the aspects of '4C'



Data is new oil, but crude oil is useless until it goes through the refining process



Custodians

key focus has
been on data
collection.



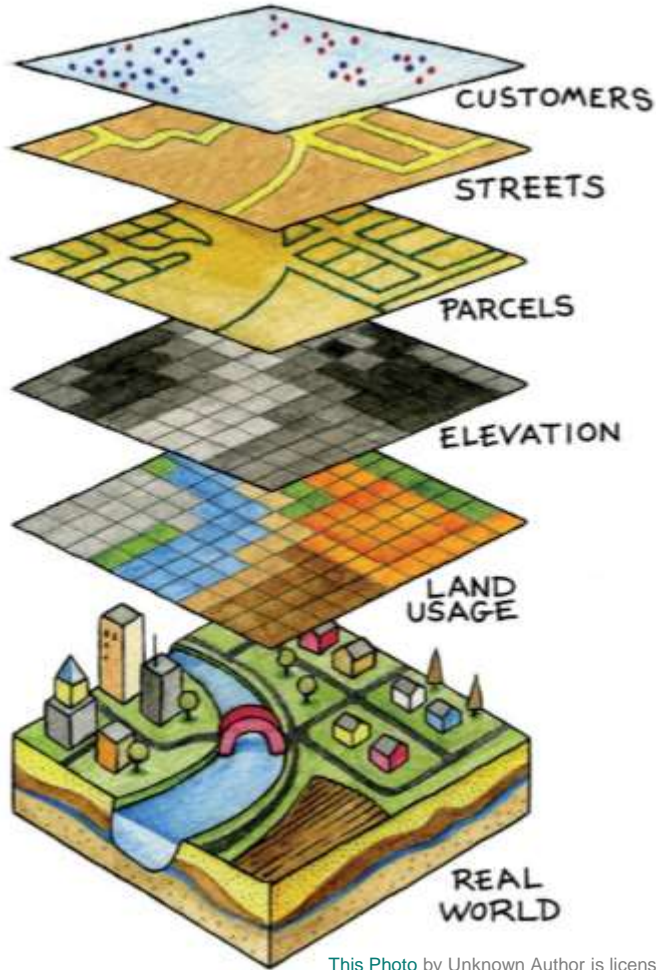
Challenges

vast amount, wide-ranging, and
disorganised clutter of
information spread across data
centers, multiple clouds and
various vendors.



Modernised SDI Sabah Geo Hub

put emphasis on **co-creation**
and extract new actionable
insights from data.

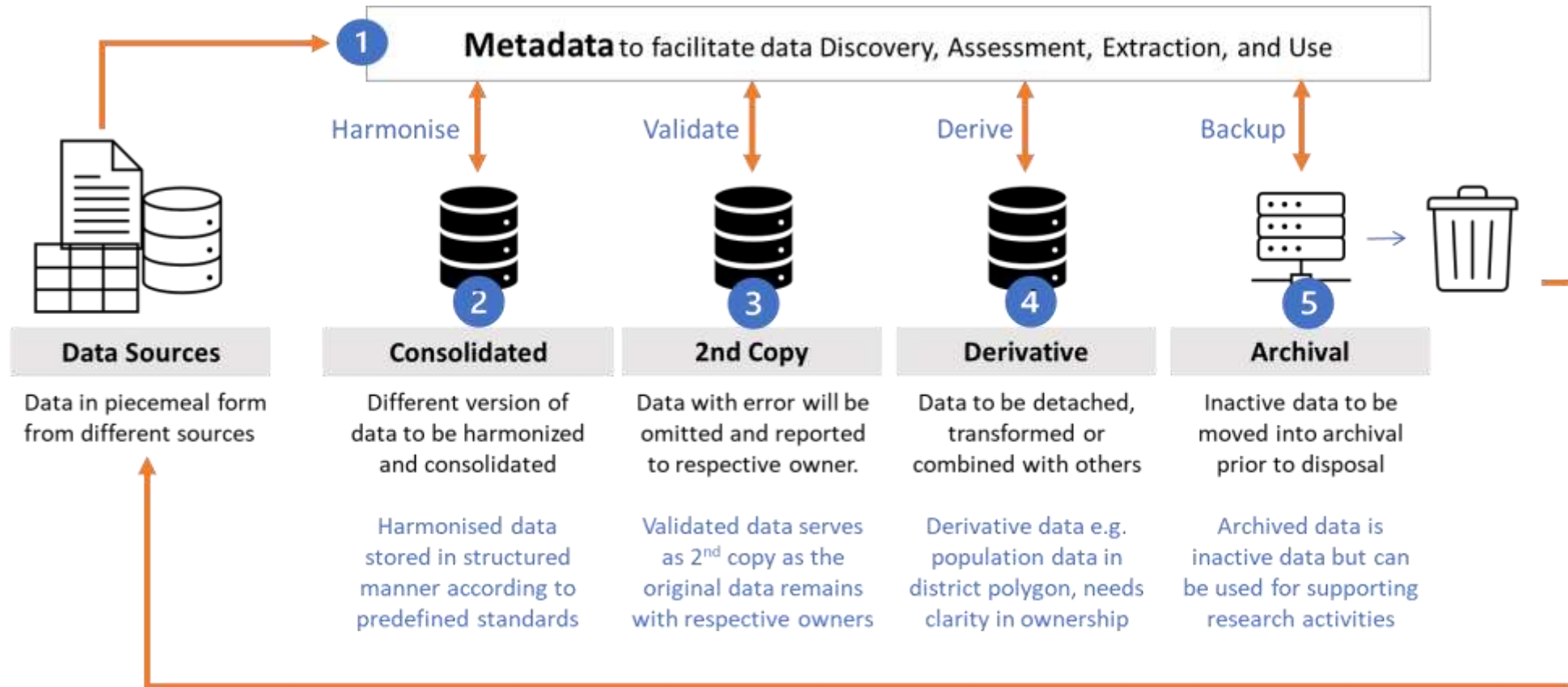


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15 government agencies are participating in Sabah Geo Hub

1. Lands and Surveys Department
2. Public Works Department
3. Sabah Forestry Department
4. Department of Agriculture
5. Department of Fisheries
6. Department of Irrigation and Drainage
7. Sabah Parks
8. Town and Regional Planning Department
9. Sabah Water Department
10. Department of Mineral and Geoscience Sabah
11. Department of Statistics Malaysia Sabah
12. Department of Industrial Development and Research
13. Environment Protection Department
14. Kota Kinabalu City Hall
15. Sandakan Municipal Council

Sabah Geo Hub aims at improving the completeness, correctness, currency, and consistency of the shared resources



Processes are fully automated in Sabah Geo Hub powered by FME



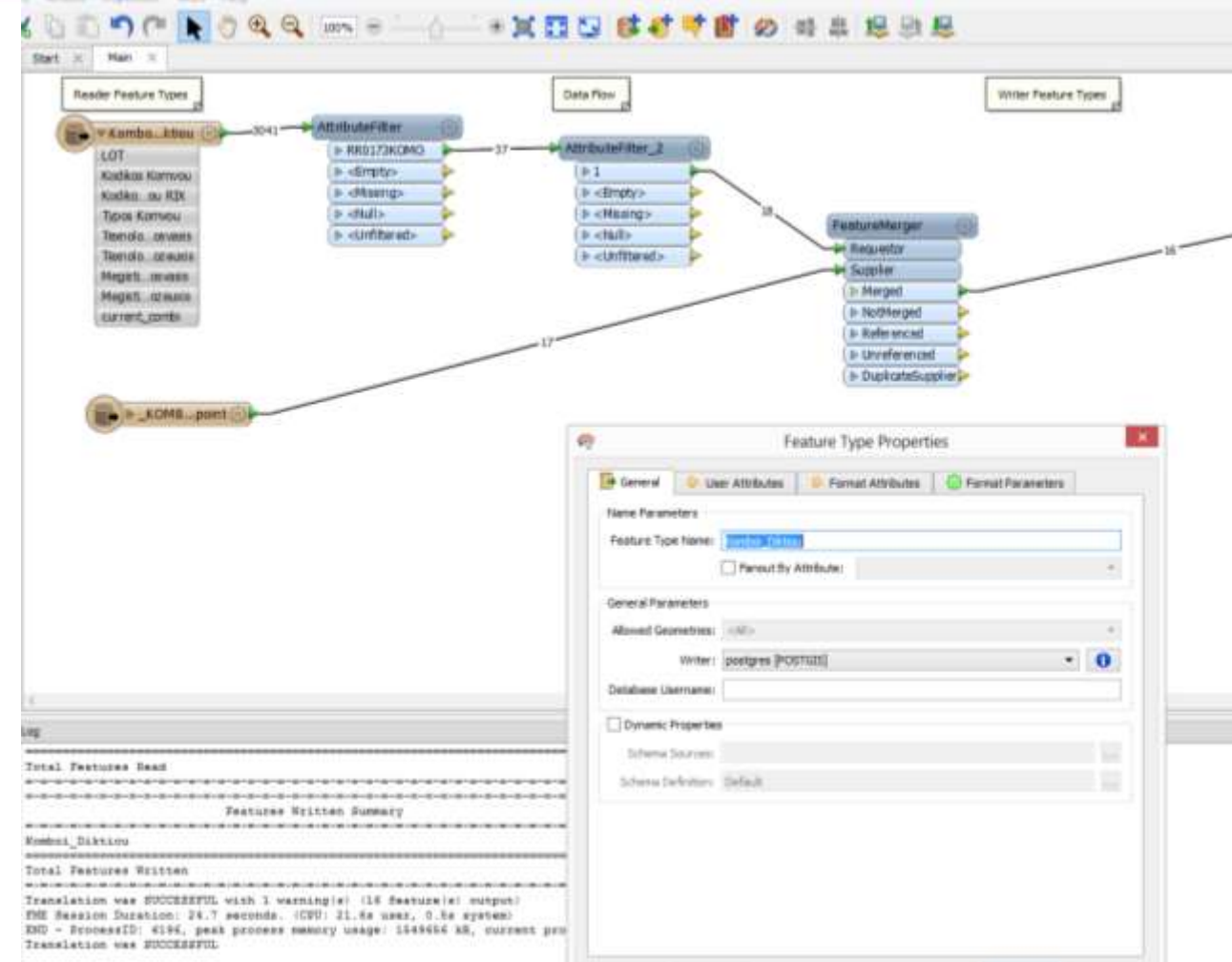
Allowing users to **co-create** across-department workflow



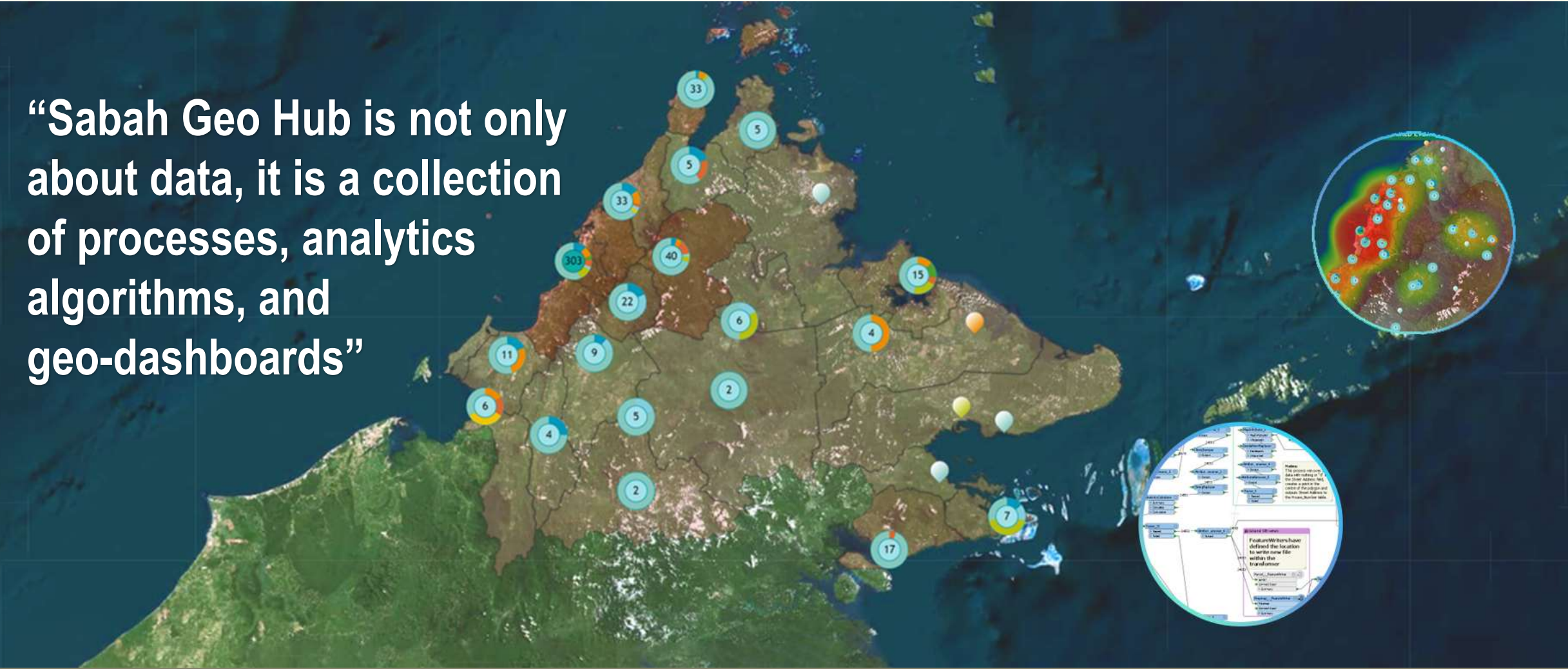
Enabling process digitization and automation



Generating new and actionable insights to support different use cases.



“Sabah Geo Hub is not only about data, it is a collection of processes, analytics algorithms, and geo-dashboards”

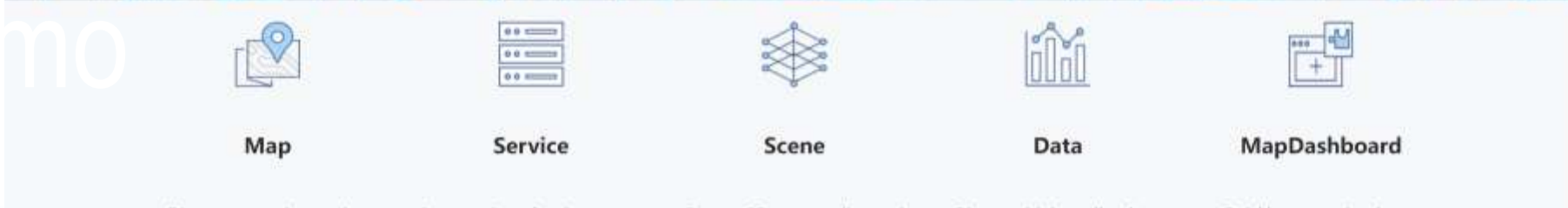




Sabah Geo Hub Portal

Platform for Store and Share Sabah Geospatial Data

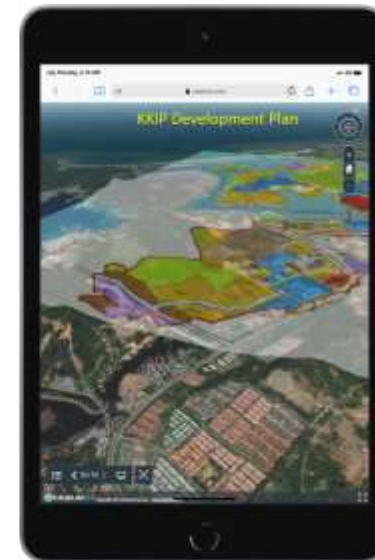
[Resource Center](#)



mo

[Map](#) [Service](#) [Scene](#) [Data](#) [MapDashboard](#)

Accessible by anyone, anytime at any location
with any mobile device



SABAH GEO HUB HAS LAID THE FOUNDATION FOR FUTURE WORK TOWARDS



Next, Sabah Geo Hub to be venturing into Digital Twin and Metaverse



Digital Twin

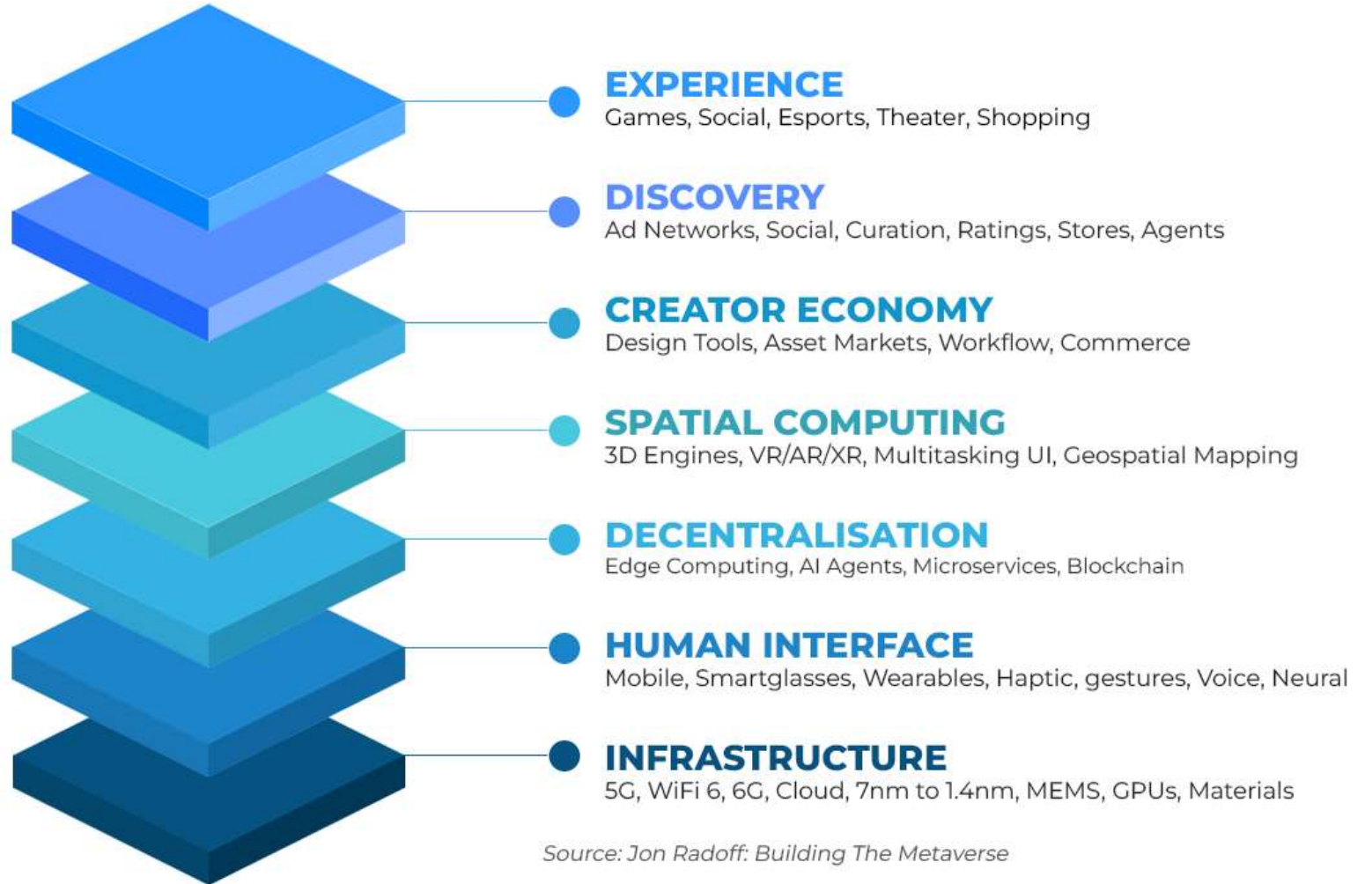
Use real world data to create simulations that can predict how a product or process will perform under different conditions of environment



Metaverse

Not simply a 3D modelling and simulation, but it facilitates real-time connections between virtual and physical world

The Seven Layers of the Metaverse

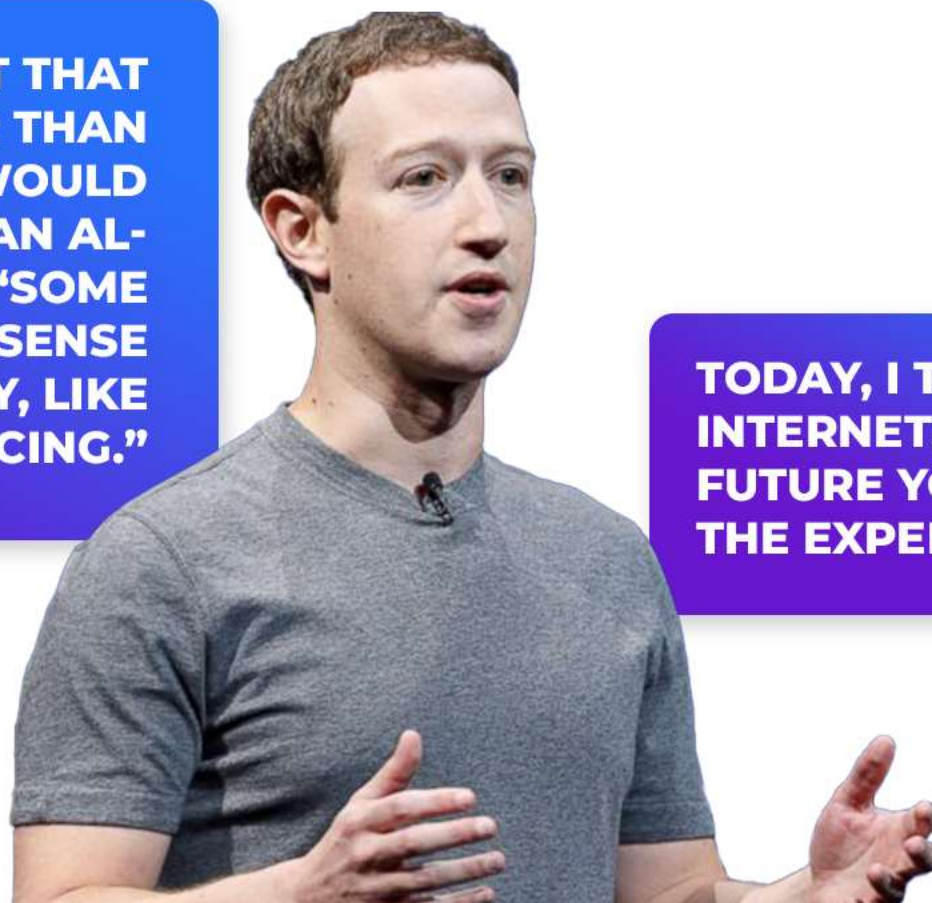


Source: Jon Radoff: Building The Metaverse

Three key aspects of the metaverse



“[AN] EMBODIED INTERNET THAT YOU’RE INSIDE OF RATHER THAN JUST LOOKING AT” THAT WOULD OFFER EVERYTHING YOU CAN ALREADY DO ONLINE AND “SOME THINGS THAT DON’T MAKE SENSE ON THE INTERNET TODAY, LIKE DANCING.”



TODAY, I THINK WE LOOK AT THE INTERNET, BUT I THINK IN THE FUTURE YOU’RE GOING TO BE IN THE EXPERIENCES

MARK ZUCKERBERG

THE WAY FORWARD

- Digital Twins is the foundation of the infrastructure for Metaverse
- NFT and Real Estate
- Metaverse should be addressed by surveyors and surveying community
- FIG should discuss about Metaverse



Thank You

Sabah Digital Government