

GLOBAL DATA FLOW AND RISK OF PRIVACY LEAKAGE

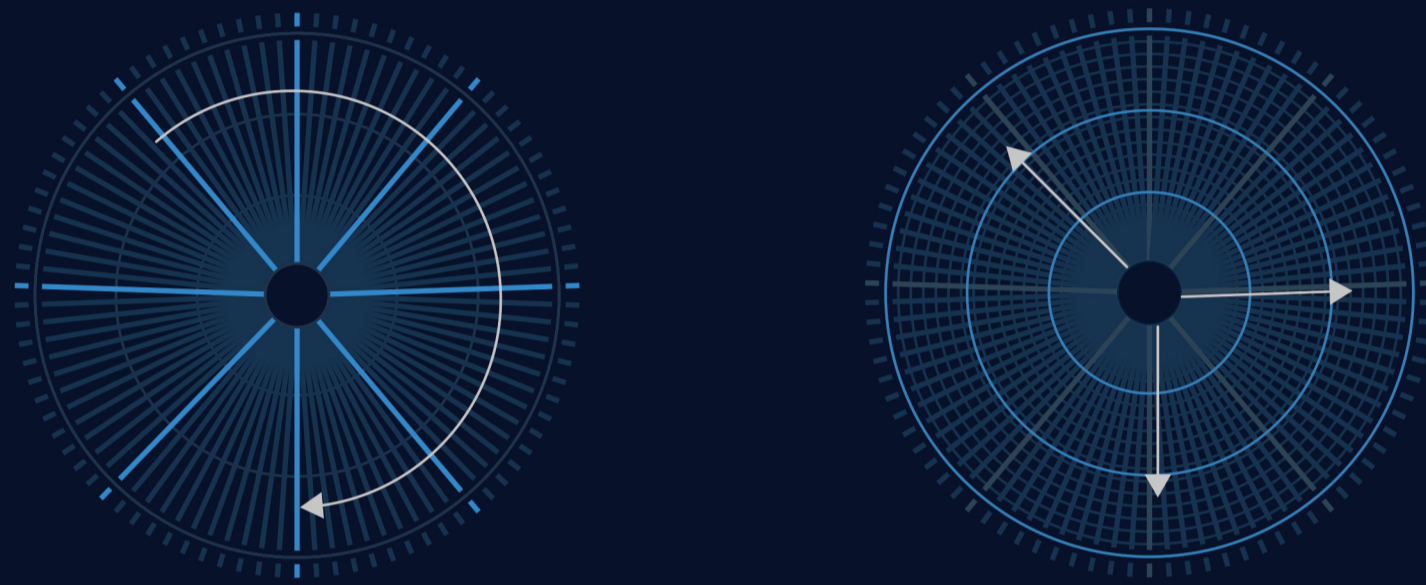
We are currently in an information age, and countless data Operational Warehouse Stagings (OWS) are taking place around the world day by day, in which data is safely stored. Cybercrime is also increasing rapidly making, privacy protection and the ability to accurately respond to and cope with cybercrime essential.

As "big data utilization" increases, it contributes to productivity improvement in various sectors of society, but simultaneously, it can be abused or cause privacy infringement. In our world in which data is not only useful, it is imperative, the project seeks to reconstruct abstract data OWS into practical form by global data statistics.

Based on global statistics, I researched data breaches by region over the past 10 which I visualized in the mapped infographic. The map analyzes the chronological changes in the usage and value of data by each world region and represented by coordinates and shapes.

My hope is that this data provides an opportunity to make work citizens more aware of the risk of privacy leakages.

GLOBAL DATA DISTRIBUTION MAP NAVIGATOR



STEP 01 Angle setting

The setting of the angle is carried out as a work to calculate the coordinates of big data in each world region, as defined by the social economic ecosystem in a circular form. Unique angles are given in terms of time-series so that it can be distributed sequentially according to chronological order and specific social phenomena.

STEP 02 Distance calculation

As the second step in selecting the coordinates of big data by world region, distance is measured from the center of the circle, and social value scales are used as the basis for calculation.

STEP 03 Colorizing

Fourteen unique colors were defined for identifying the characteristics of each region of the world and classifying them accordingly.

- Eastern Africa
- Middle Africa
- Northern Africa
- Southern Africa
- Western Africa
- The Caribbean
- Central Africa
- South Africa
- Northern America
- Asia
- Europe
- European Union
- Middle East
- Oceania

*SOURCE : Internet World Stats(IWS)

STEP 04 Transparency



The transparency of colors is determined by the level of data usage by world region.

STEP 05 Area derivation



The size of the area is determined by the number of data users by world region.

MOBILE EVOLUTION
The development of electronic devices, the convenience of using data via mobile, increases data accessibility in all fields, including e-commerce, social media, and search etc.

PANDMEIC ISSUE
Data usage and value increase by adopting digital (online) as COVID-19 spreads worldwide around April 2020.

