MANDAT INISIATIF BIG DATA MALAYSIA

YAB Dato' Seri Mohd Najib bin Tun Abdul Razak dalam 25th MSC Malaysia *Implementation Council Meeting* pada 14 November 2013 telah memutuskan:

• Kementerian Komunikasi dan Multimedia Malaysia bekerjasama dengan MAMPU dan MDeC untuk membangunkan Kerangka Big Data Kebangsaan.

• MAMPU dan MDeC berkolaborasi untuk melaksanakan empat (4) projek rintis *Big Data Analytics* (BDA). BDA adalah bertujuan untuk meningkatkan keupayaan Kerajaan dalam membuat keputusan berasaskan fakta dan data, pembangunan bakat tempatan dalam BDA sekaligus menyahut keperluan kritikal agenda transformasi negara.

KEPUTUSAN MESYUARAT JAWATANKUASA IT DAN INTERNET KERAJAAN BIL.1 TAHUN 2014 PADA 28 MAC 2014

Semua agensi disarankan supaya bersedia dan mengambil tindakan **mengenal pasti inisiatif *big data analytic* dan data set bagi pelaksanaan *open data*** dalam setiap perkhidmatan teras agensi.
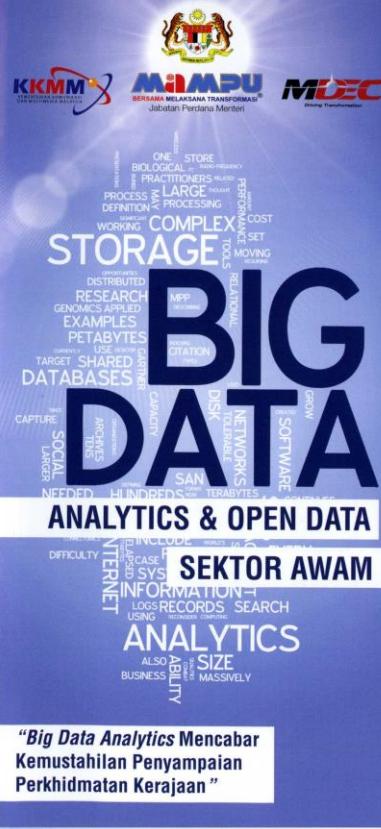

TADBIR URUS BIG DATA KEBANGSAAN

RANGKA KERJA BIG DATA SEKTOR AWAM

PROJEK PERINTIS SEKTOR AWAM

1. *Price Watch*
   - Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan
2. *Sentiment Analysis*
   - Kementerian Komunikasi dan Multimedia Malaysia
3. *Crime Prevention*
   - Kementerian Dalam Negeri
4. *Infectious Disease Forecasting*
   - Kementerian Kesihatan Malaysia

BIG DATA ANALYTICS & OPEN DATA — SEKTOR AWAM

"Big Data Analytics Mencabar Kemustahilan Penyampaian Perkhidmatan Kerajaan"

BIG DATA

Big Data is high-volume, high-velocity and high-variety information assets that demand cost-effective, innovative forms of information processing for enhanced insight and decision making.

(Source: Gartner)

VOLUME (LARGE VOLUME DATA)
Large volumes of data extending into the TB or PB range.

VARIETY (WIDE RANGE OF DATA)
Unstructured data such as text and images.

VELOCITY (TIME SENSITIVE DATA)
Rapid creation of new data.

Big Data Analytics (BDA) is the process of examining large amounts of data of a variety of types (big data) **to uncover hidden patterns, unknown correlations** and other useful information.

(Sumber: Whalts.com)

Open data is data that **can be freely used, reused and redistributed by anyone** – subject only, at most, to the requirement to attribute and share alike.

(Sumber: OpenDefinition.org)

Big Data technologies as a new generation of technologies and architectures designed **to extract value economically from very large volumes of a wide variety of data** by enabling high-velocity capture, discovery, and/or analysis.

This definition encompasses hardware and software that integrates, organise, manages, analyst, and presents data that is characterised by the "four Vs":
- Volume
- Variety
- Velocity
- Value

(Sumber: IDC)

Big Data & Open Data Benefits

- Sharing of data amongst the government ministries & agencies to **harness the vast potential of data**
- **Reduce data in silos; sharing** information makes decision making more efficient.
- **Improved decision making process** through data linkages, data mining, data analytics and predictive analytics
- Decision making is much more **proactive and timely manner.**

Competitive Advantages of Big Data:
- Making operations more efficient: **59%**
- Boosting sales: **54%**
- Lowering IT costs: **50%**
- Becoming more agile: **48%**
- Attracting and retaining customers: **46%**