

IR 4.0:

Enabling Integrity in Digital Government?

19 November 2019 | HPA 26 Civil Service Conference



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Petikan Titah
Kebawah Duli Yang Maha Mulia
Paduka Seri Baginda Sultan Haji Hassanal Bolkiah
Mu'izzaddin Waddaulah ibni
Al-Marhum Sultan Haji Omar 'Ali Saifuddien
Sa'adul Khairi Waddien,
Sultan dan Yang Di-Pertuan of Negara Brunei Darussalam





".... Tidak dapat disangkal lagi, Perkhidmatan Awam adalah merupakan jentera penggerak kerajaan dalam membangun negara bagi kesejahteraan rakyat. Ia bukan sahaja untuk masa ini, malahan juga untuk masa ini, malahan juga untuk kepentingan jangka panjang.

Perkhidmatan Awam berperanan menanai tanggungjawab besar untuk masyarakat. Ia perlu mempunyai usaha atau inisiatif bagi kemanfaatan masyarakat secara langsung.

Beta ingin menekankan di sini, bahawa amanah adalah wajib diamalkan oleh setiap warga Perkhidmatan Awam. Tidak ada maknanya berkhidmat tanpa amanah. Amanah adalah 'tiang seri' keadilan. Rakyat mesti dilindungi dan dibela dengan keadilan. Inilah ajaran ugama kita...."

12 November 2019 | Petikan Titah Sempena Hari Perkhidmatan Awam Kali Ke-26



"....Beta suka mengingatkan bahawa apa pun rancangan untuk memajukan Perkhidmatan Awam, sama ada didalam bentuk pelan strategik atau pelan pembaikan berterusan, maka kita adalah mustahak untuk memastikan bahawa perkara-perkara yang asas dan utama tidak diabaikan. Diantara perkara tersebut adalah seperti kedatangan, komitmen, dedikasi, disiplin dan integriti. Jika perkara-perkara ini tidak ada atau kurang mantap, maka apa pun usaha untuk pembaharuan pengurusan dan teknologi, tidak akan berhasil. Inilah nilai-nilai yang mesti dimiliki dengan sempurna. Kerana ia merupakan intipati pengurusan dan sumber tenaga manusia....."

21 Oktober 2010 Petikan Titah Sempena Hari Perkhidmatan Awam Kali Ke-17



"....Selain kita perlu memperkasa sifat-sifat jati diri ini, warga Perkhidmatan Awam juga mustahak menguasai kemahiran-kemahiran pengurusan moden, seperti penggunaan scorecard, penggunaan teknologi maklumat, penyeliaan dan lain-lain....."

21 Oktober 2010 Petikan Sempena Titah Hari Perkhidmatan Awam Kali Ke-17

"....Respon terhadap revolusi (IR4.0) tentu saja melibatkan semua pihak yang berkepentingan sama ada oleh sector awam, swasta dan malah seluruh masyarakat, termasuk para akademik dan graduan untuk berganding bahu menggerakkan pembangunan knowledge-based...."

29 Ogos 2018 | Petikan Titah Sempena Konvokesyen UBD Ke-30



Definition of Integrity Two



definition of Integrity

Cambridge Dictionary:

"...the quality of being honest and having strong moral principles that you refuse to change...."

Fordham Law Review Volume 72/Lloyd Weinreb – Integrity in Government, 2003

- John Rawls identified the virtues of integrity as "truthfulness and sincerity, lucidity and commitment."
- Few disagree that integrity is one of the qualities most to be valued in public officials.



Integrity & Public Service

• Only government can set the rules to preserve the quality, integrity and accessibility of truly public services in the government as a platform world. Government leads, partners and let happens. Thus, the need to ensure high ethical standards.





Traditional Role of Civil Service in Government and Public Service

Three



Civil Service Role [Civil Service 21st Century]

Civil Service Role 1 – Government's Administrative Machinery

- Uphold Supreme Authority of His Majesty the Sultan and Yang Di-Pertuan of Brunei Darussalam
- Uphold National Philosophy Malay Islamic Monarchy
- Development of the Country
- Welfare of the People

Civil Service Role 3 – Facilitator Moderniser Thinker

 Facilitate Public Dealing with Government / Improve and Upgrade Service Quality / Moderniser / Educated, creative and innovative officers / Thinker / Provide ideas, constructive and positive plans

Civil Service Role 2 – Traditional Role's of Government

Law Enforcer / Regulator / Service Provider / Peacekeeper



- Engine of national development programs and formulator of policies to improve the quality of life for citizens as well as to ensure peace, prosperity and stability of the nation;
- Driven by the 3 main goals of Brunei vision 2035 – High Quality of Life, Highly Skilled People and Sustainable Economy – the civil service needs to be progressive, adaptable and forward-looking.

Public Services





Brunei Darussalam's 21st Century Civil Service Vision - *Rukun Akhlak dan Etika Perkhidmatan Awam*

Four



"Untuk Menjadikan Perkhidmatan Awam Negara Brunei Darussalam yang sentiasa membangun dan berusaha dengan gayanya tersendiri menurut calak Islam dalam persekitaran yang sihat dan selamat di bawah inayah dan petunjuk Allah Subhanahu Wata'ala"



- Bersih, jujur, dan amanah amalan mulia
- Cekap, cepat dan Tepat Tuntutan Kerja
- Titih, lutanan dan menghargai masa asas kejayaan
 - Berilmu, kreatif dan inovatif asas kebaktian
- Beriltizam, keterbukaan dan akauntabiliti mengukuhkan keberkesanan
 - Sabar, tabah dan bersopan santun amalan terpuji
 - Meningkatkan produktiviti dan daya saing menambah penghasilan
 - Qudwah dan Qiadah Teladan Kepimpinan
 - Setia kawan, Syura dan Bermuafakat membawa berkat
 - Berjimat Cermat asas kemakmuran
 - Pemedulian asas perpaduan



Global Trends in Technology & Government

Five

Industry 1.0 Water and steam por

Water and steam power is used to create mechanical production facilities

Industry 2.0

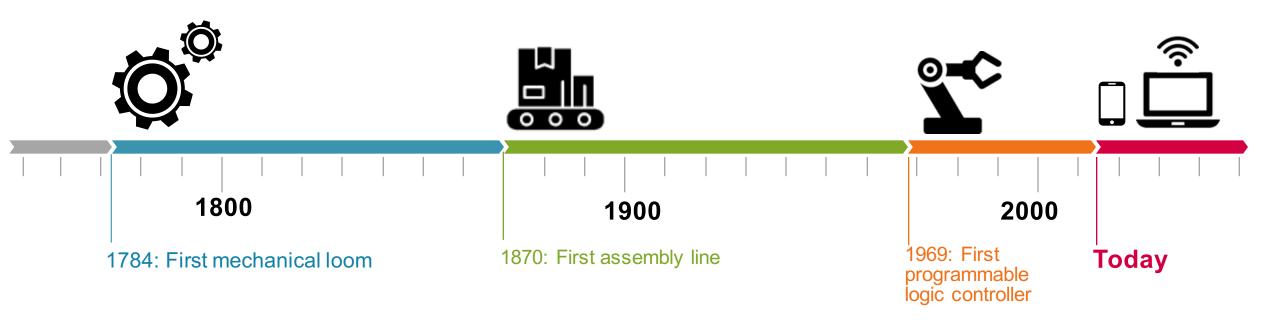
Electricity lets us create a division of labour and mass production

Industry 3.0

IT systems automate production lines further

Industry 4.0

Artificial Intelligence (AI), IOT, cloud technology automate complex tasks

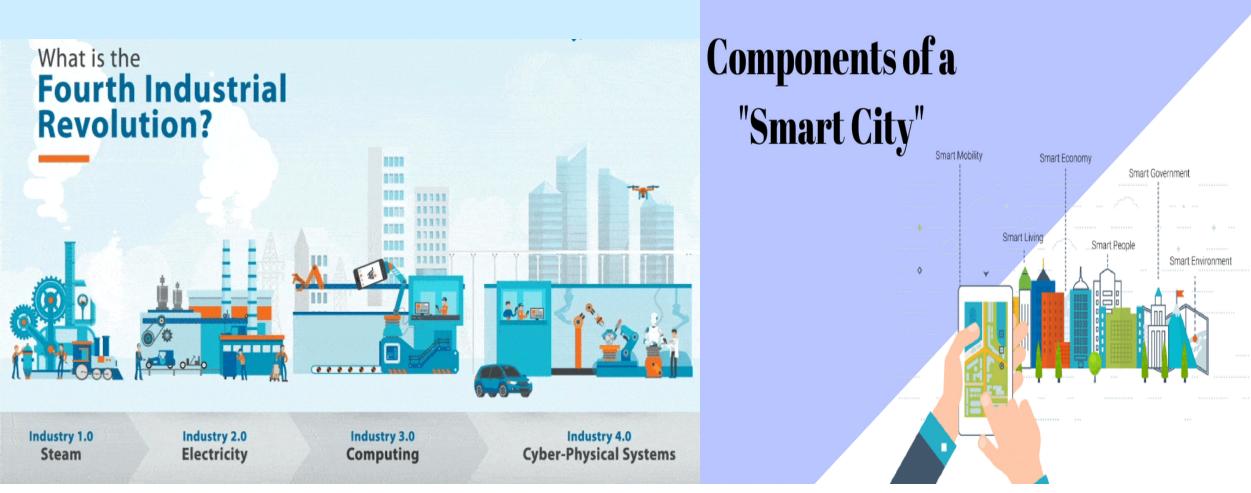


The **future economy** will see economic activities transiting in the **digital economy**, where **digital technologies based on Industry 4.0** will form the basis of the activities.

As the world is undergoing digital transformation, **transforming Brunei Darussalam into a** "**Digital Economy**" is becoming one of the important agenda for the country's economic growth and social prosperity.



4th Industrial Revolution?



Source: innovate.ieee.org



Global Trends in Government

Technological

- New technologies rapidly (exponential growth) emerging eg artificial intelligence, machine learning and myriad others...
- Mobile phone access expanding
- Explosion of data (...but data literacy?)

Political

People's expectations of governments have been and continue to rise





Economy

- Changing aspirations amidst economic uncertainty
- Circulating Talent
- Digital Barons and Talent Superhubs
- Innovating Platforms
- People as Businesses



Technology

- Human Augmentation
- Human Substitution
- Info-Flows Control and Opportunities
- Future of Internet





- Ageing Population
- Changing Texture of Society
- National Identity
- Urban Governance
- The Lived Experience

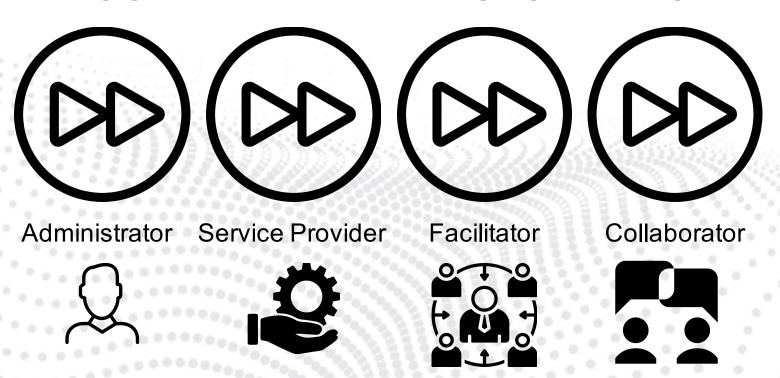


Environment

- Changing Global Order
- Climate Change and the Global Carbon Regime
- Evolution of the Water Energy Food Land Nexus
- Overruled Globally



GOVERNMENT TRANSFORMATION





Brunei Darussalam's Current Digital Landscape

Six



Digital Accessibility

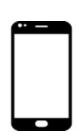


66% - 99%Mobile Broadband
Service Coverage

Brunei Muara 99% Belait 93% Tutong 80% Temburong 66%



88%
Internet
Penetration



134%Mobile Phone Penetration



88%Smart Phone



61%Household with Laptop



76%E-Commerce Users



95%Household use WhatsApp



42%Businesses
Capitalize ICT
Fully

Source:



Progression Towards Digital Government in Smart Nation

Seven

Singapore: Smart Nation

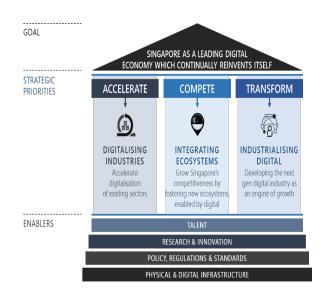
WHAT is Smart Nation?

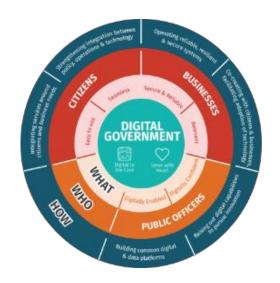
Using technology to achieve significant transformation in the areas of Economy, Government and Society

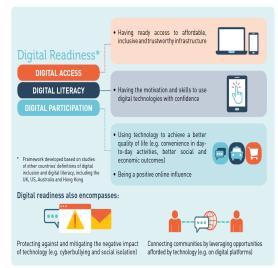
#1 DIGITAL ECONOMY

#2 DIGITAL GOVERNMENT

#3 DIGITAL SOCIETY









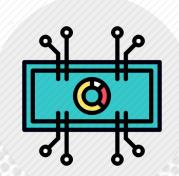
Pillars Of SMART NATION

Digital Government

Digital Economy

Digital Society







AITi: Roadmap Towards Initiating Smart Nation Vision for Brunei Darussalam (2017)

'.... vibrant and diversified ecnomy...'

… improved competitiveness and economic growth by developing infrastructure, innovation, data capability, human capital and other resources…' "… improved quality of life, public services, schools, safety, mobility of people and to achieve environment sustainability…"

Singapore: Smart Nation - The Way Forward (2018)

- where people will be more empowered to live meaningful and fulfilled lives, enabled seamlessly by technology, offering exciting opportunities for all.."

 "... businesses can be more productive and seize new opportunities in the digital economy..."
 - "... a nation that collaborates with our international partners to deliver digital solutions and benefit people and businesses across boundaries..."



Progression Towards Digital Government

ANALOGUE GOVERNMENT

Closed operations and internal focus, analogue procedures

E-GOVERNMENT

Greater transparency and user-centred approaches, ICT-enables procedures

DIGITAL GOVERNMENT

Open and user-driven approaches, process and operational transformations



Digital Transformation in Civil Service

Eight



New Forces Shaping Government Services

Rising Customer Expectations, Fiscal Pressures, New Technologies Rising Customer
Expectations – Cutting
Edge Service Delivery,
Customer-Centricity

Demand on 'New Era' of Innovative and Connective Civil Service Delivery



What is Government Digital Transformation?

From:

- As Service Provider
- Institution Centric
- Compliance
- Risk Avoidance
- Standardisation
- Out of Network
- Analog First
- Dogma Driven
- Tried and True
- Solution Focused
- Reactive

To:

- As Platform
- Citizen Centric
- Results
- Risk Management
- Personalisation
- In Network
- Digital First
- Data Driven
- Experimentation & innovation
- Problem Focused
- Proactive

Change Implications:

- Mandate & Purpose
- Organisation
- Expectations
- Incentives
- Talent & Capacity
- Trust
- Transparency
- Accountability
- Anticipatory
- Agility
- Technology

Putting the citizen at the centre



Parents

 Parenting (from birth to early childhood education)



Citizens in Bereavement

 Death & Bereavement (from planning → death → post-death)



Patients

 Outpatient Journey in Public Health institutions



Seniors / Active Ageing

Active Ageing through healthy and assisted living



General Public Officers

 From on-boarding to running typical daily duties as public officers



NS Men

From Pre-enlistment to MINDEF Reserve (MR)



Parents

Parenting (from pri school registration to completion of PSLE)



General Business

Licensing & Regulatory Journey (F&B)



Property Developers

From purchase of land to TOP •



Overseas Singaporeans

Singaporeans travelling and residing overseas



Working Adults

Seeking suitable job and staying relevant in a job



Air Travellers

Visitors' experience in Singapore •







Concept of Digital Government

Nine



Why Digital Government?



Why Digital Government?



Clear Links Between Digital Transformation & Economic Growth



Fulfilling Higher Citizen Demands



New Service models for forward-looking governments



Why Digital Government?



- 1. To create public value
- 2. Relies on a digital government ecosystem including individuals and government and non-government actors
- 3. Supports the production of and access to data, services and content

Focusing on these phrases, a simpler definition of digital government: digital government refers to the production and access to data, services and content, sourced and distributed across the digital ecosystem, to create public value.



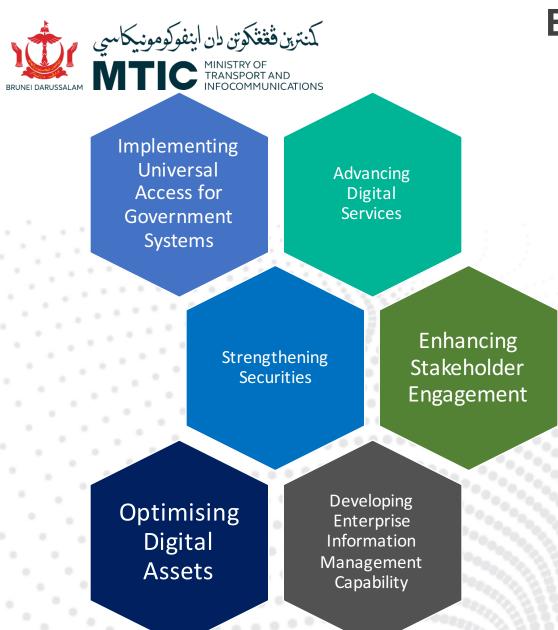
Brunei's Digital Government Strategy



A DIGITAL GOVERNMENT TO ACHIEVE WAWASAN BRUNEI 2035

- Digital Government Strategy 2015-2020 to improve online services – convenient, fast and accessible;
- Government processes and services transformed and continuously improved;
- Seamless flow of information across government Citizens and businesses – greater transparency and better insights to informed decision-making

Brunei's Digital Government Strategy



Six (6) programmes supporting Digital Government Strategy implementation



Several Online Platforms....

39 Government E-Services [36 End-to-End | 3 Partial]



Business and Finance

Eg. Application of import and export permit (BDNSW)



Transportation

Eg. Renewal of Driving and Vehicle License (SPD)



Health

Eg. Online health registration (BruHIMS)



Housing, Land & Environment Eg. Application of land transfer (LARIS) – Partial



Family & Social Welfare

Eg. To book venues or sports facilities (12Book) – Partial



Employment & Labour

Eg. Applying job vacancy online (Government and Private)



Immigration & Travel

Eg. Register your travel abroad (E-Register)



Education & Learning

Eg. Higher Education Centralised Admission System (Hecas) - Partial



Laws

Eg. Case file tracking

The official portal of the Government of Brunei Darussalam

665,348 Visitors 104,926 Registered

What's coming.....

- database-as-a-service
- One Common Billing System (OCBS)
 - Digital ID.





















Integrity in Digital Government

Ten



Digital Government & Integrity

Pathways through which digital government can promote integrity:

 Facilitates information between government and citizens e.g. social media, website, apps



 Automation reduces human discretion (less corruption)









 Facilitates citizen feedback



 Citizens can demand better government performance



 Increased transparency and transaction trail





Challenges to Government

Eleven



Governance Challenges



 How to really measure bureaucratic effectiveness, sector effectiveness, public administration and financial management



Increasing adoption of mobile technology and social media EXPOSES GOVERNMENT PERFORMANCE limitations



- Integrated Government Information System
- Social media outreach







Service Delivery Context



 Citizens expectations for services have increased because of consumer digital experiences



- Digital Transformation Strategy
- Business Process Re-engineering

كنترين فَقْقَاكُوتن دان اينفوكومونيكاسي MTIC MINISTRY OF TRANSPORT AND

Transparency & Accountability



Governance and Public Information



 Suspicion about political agenda and corruption amplified through social media and fake news



- Official Secrets Act
- Public Order Act
- Anti-Corruption Act
- Internet Code of Conduct
- Content Advisory Council



Public Participation



Citizen and Public Conduct



Failure of government to be proactive



- Public Consultations
- E-portals
- Anti-corruption





Professional Strategic Innovative

To address increasingly complex problems

 using new tools available to governments..... System-wide Capacity

Organisational Skills

Individual Skills



Other Emerging Challenges

- Personal Data Protection
- Digital Security
- Algorithms, Openness and Ethical Issues Bias in Decisionmaking processes
- Misinformation and Fake News



Promoting Integrity in Public Administration

Twelve



What Promoting Integrity Means

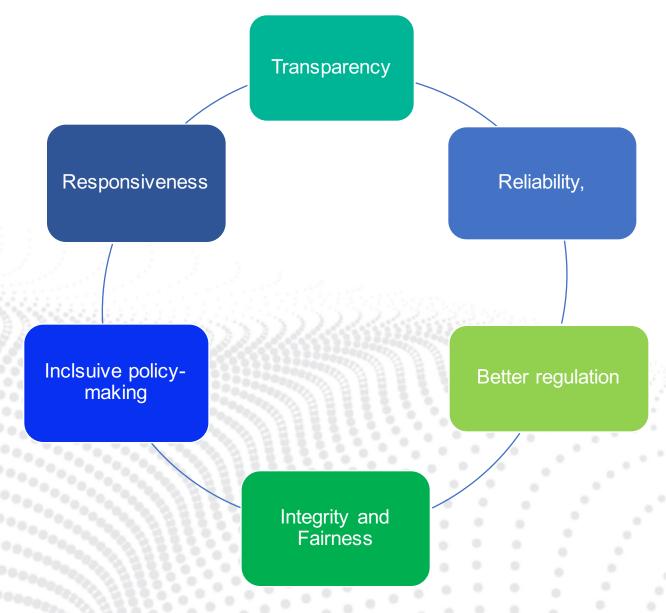
- Developing and maintaining an organisational culture or environment that supports ethical conduct;
- Focus on both the ethical conduct of individual employees and good organisational governance (i.e. performance and accountability).

Employee Integrity & Good Governance

- Systems, Policies & Processes
- Leadership
- Organisational Culture



Integrity To Remain Steadfast & Relevant to the Public



Organisation for Economic Cooperation and Development



What Do We Need to Do

Thirteenth

What Do We Need To Do



- Establish a vision for digital government to better serve citizens, inspire civil servants and improve citizen interactions and engagement for greater trust in government
- Tackle reinvention in manageable use cases to mitigate risk and accelerate returns.
- Improve the decision making of civil servants for maximum impact and leaner operations.
- Foster an adaptive culture to continuously learn and iteratively improve.
- Attract and retain the workforce of the future

Critical Success Factors

- Create citizen-centric services
- Embed digital insights within redesigned operations
- Lead culture change for restless reinvention
- Make digital architectural choices that ensure resiliency, security and responsiveness



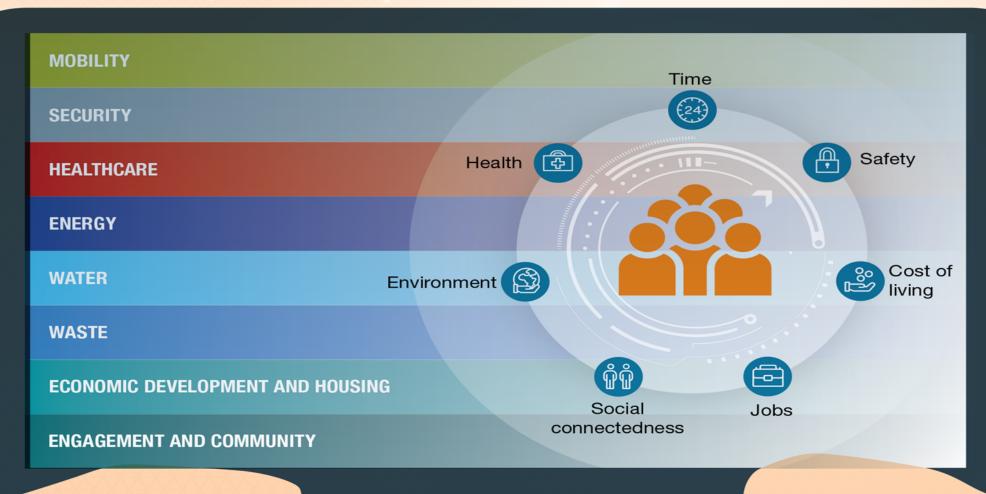
Benefits of A Smart Nation

Fourteenth



Smart cities use data and technology to make better decisions.

Smart applications in eight domains affect multiple aspects of the quality of life





... that delivers better outcomes for the people who call it home

30-300

lives saved each year in a city of 5 million 30-40%

fewer crime incidents

8-15%

lower disease burden

15-30

minutes shaved off the daily commute 25-80

liters of water saved per person per day 20-35%

faster emergency response times

McKinsey Global Institute, June 2018 | Smart Cities: Digital Solutions For A More Livable Future



Is Integrity Enabled by IR 4.0?

Yes: Towards Fulfilling Citizen Expectations

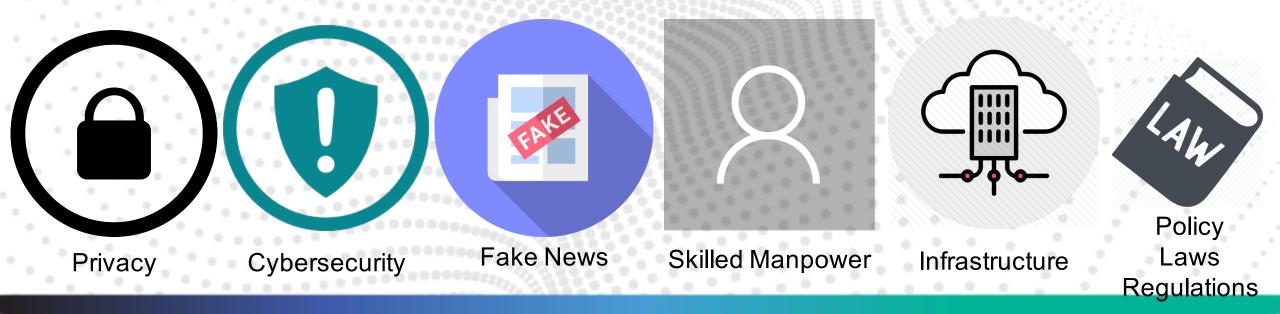
Data Connection affecting all aspects of our evolving digital society





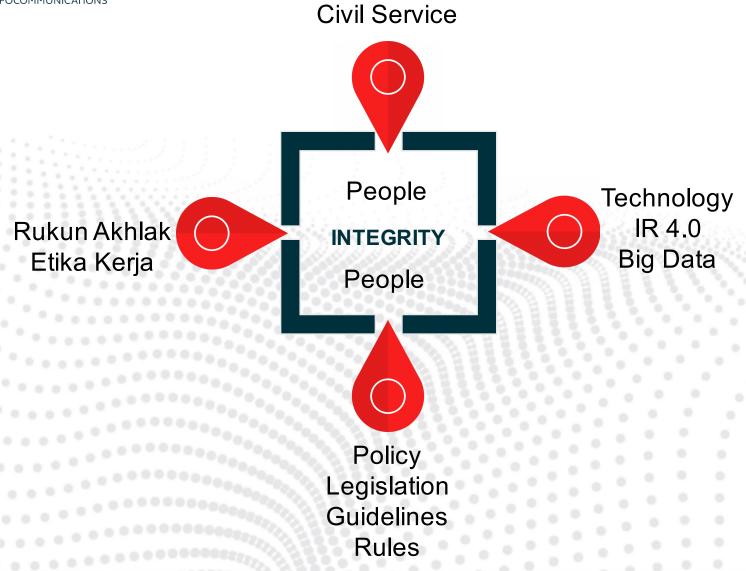
Emerging Integrity Questions? BIG Data

- Who vets the data, maintains and up-dates it to ensure it is useable and protected?
- Who regulates this data over and above a government's own open and big data management and ensures all data stakeholders are covered and protected?





The Way Forward







www.mtic.gov.bn





www.mkkjr.gov.bn



www.bruneiroadsafetypledge.com



TransportBN