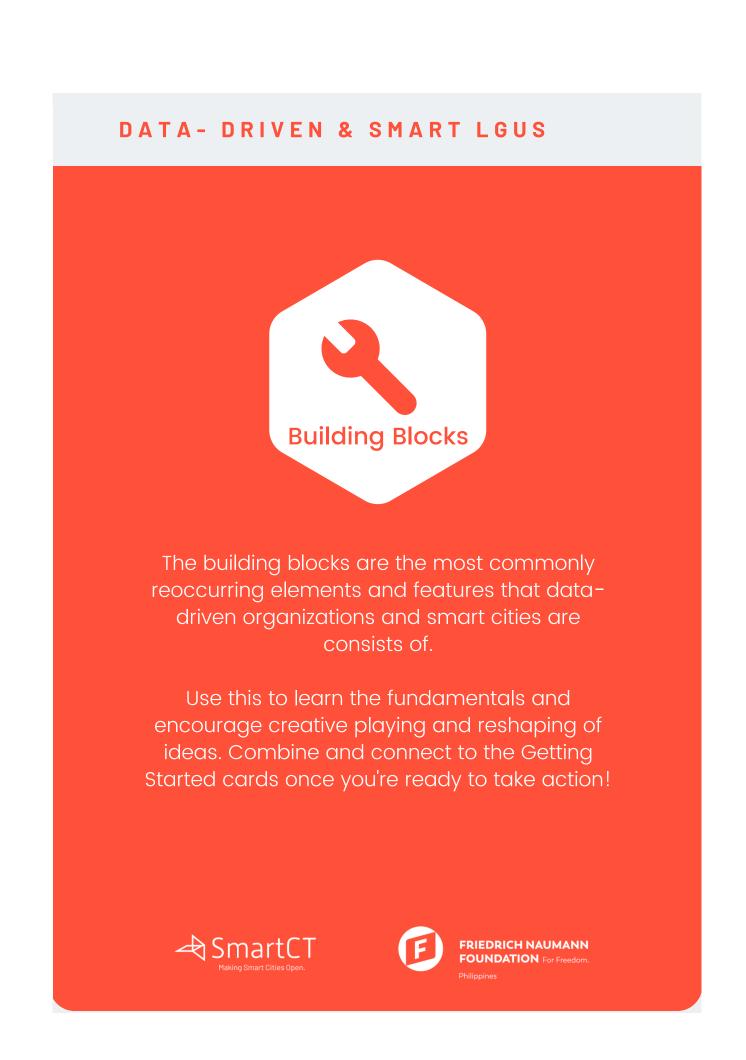
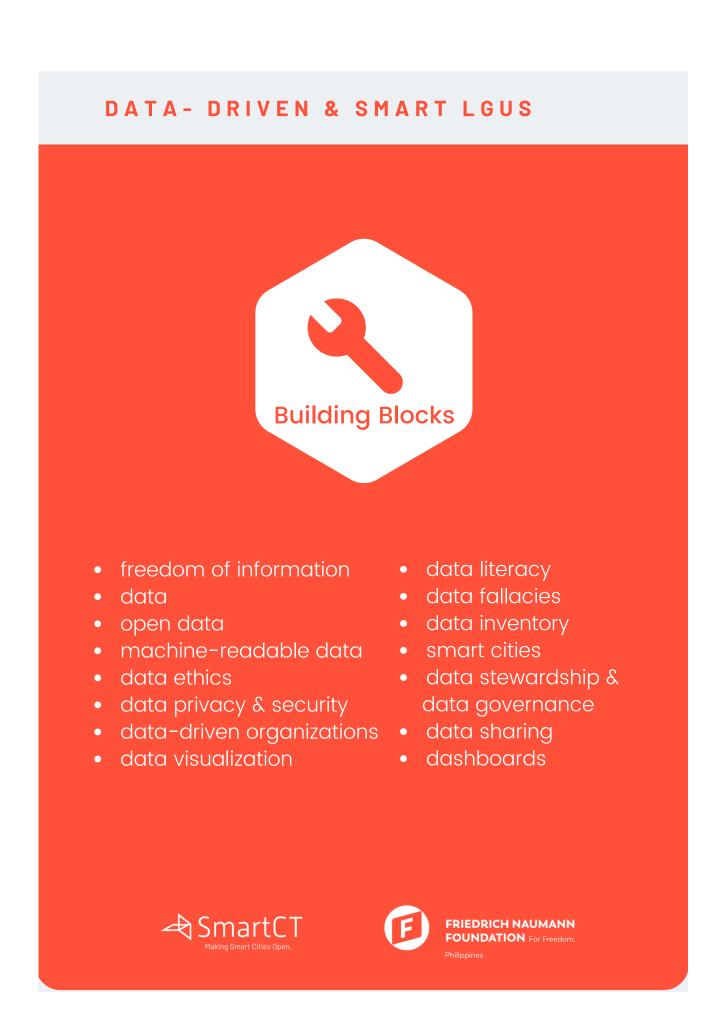
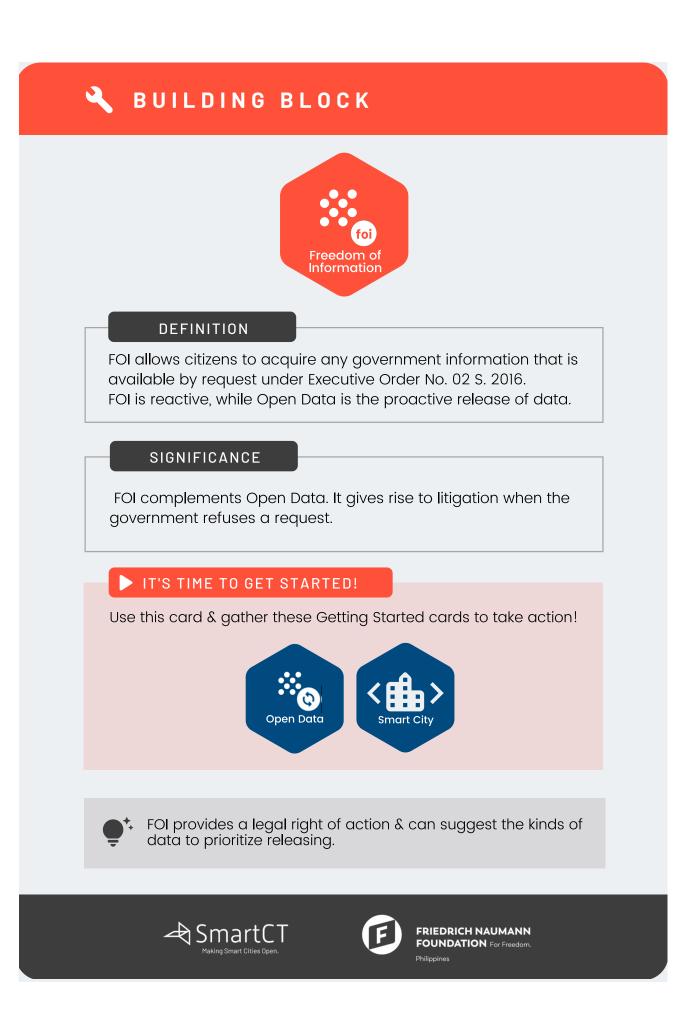
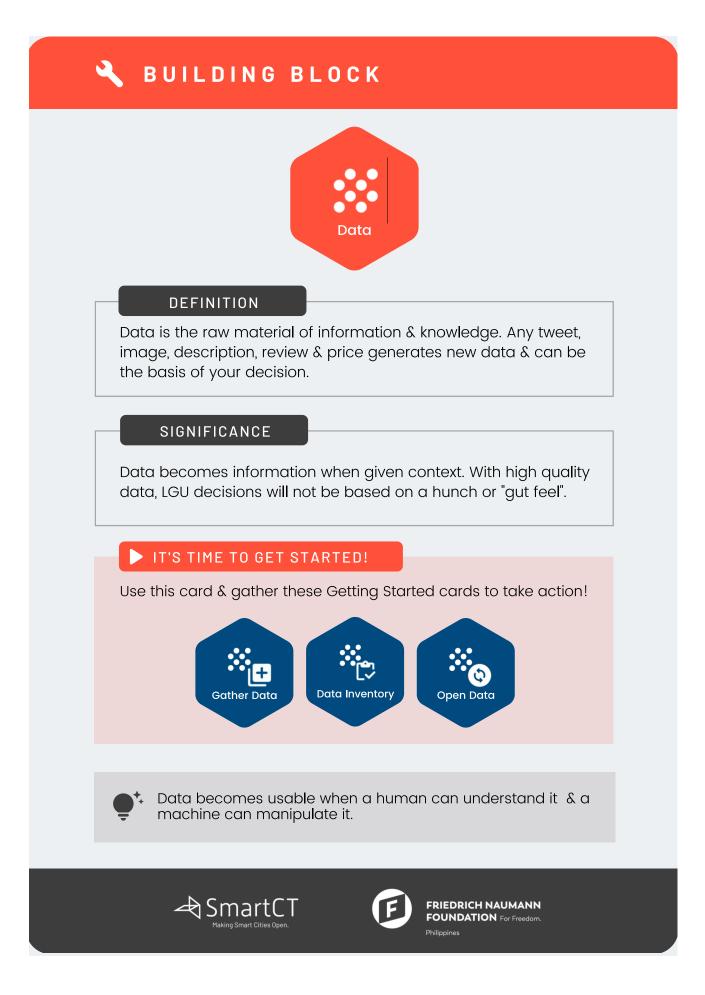
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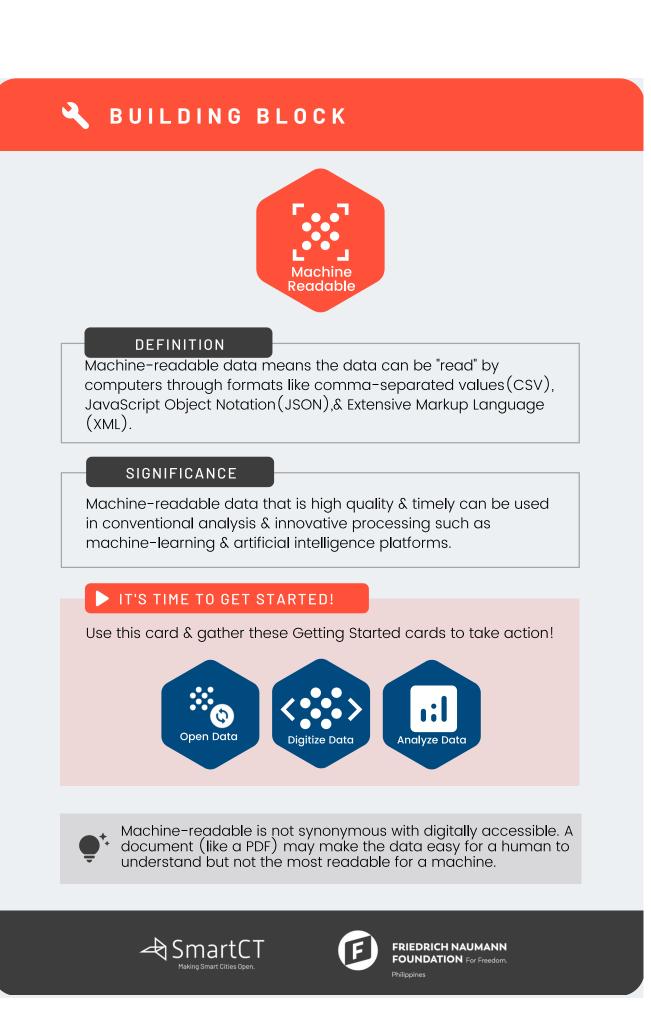












BUILDING BLOCK



DEFINITION

Data ethics is a branch of ethics that evaluates data practices that can adversely impact people & society—in collection, sharing & use. On top of privacy, it may involve bias in data & algorithms, lack of transparency, data accessibility & gaps.

SIGNIFICANCE

Data Ethics promote fairness & accountability in data practices (collection, management & use) to protect civil liberties, minimize risks to individuals & society, & maximize the public good.

▶ IT'S TIME TO GET STARTED!

Use this card & gather these Getting Started cards to take action!









The LGUs play a critical role in setting the example of ethical oversight by making responsible data decisions & values that promote the public good.





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Philippines

BUILDING BLOCK





DEFINITION

Data privacy is the protection, management, & collection of sensitive data --personal, financial, intellectual property, & the like (RA No. 10173-Data Privacy Act). At the same time, Data security includes not just cyber & cryptography security but also the prevention & management of unauthorized data access & system tampering.

SIGNIFICANCE

Having effective data privacy & security measures reduces the risk of loss of the LGU's reputation due to privacy & security breaches and increases trust in the insights, analysis, & analytics performed on the data that could inform critical administrative decisions.

► IT'S TIME TO GET STARTED!

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Effective security & privacy implementation requires a culture of awareness - staff should be trained on best practices, how to report & respond to breaches, & be kept up-to-date on the LGU's data governance procedures.





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BUILDING BLOCK



DEFINITION

Data-driven LGUs are LGUs that effectively, responsibly & consistently utilize data in their decision-making process across all levels of the organization. Data-driven LGUs have data-literate employees & residents.

SIGNIFICANCE

LGUs should effectively, responsibly & consistently open up & use data to design & deliver services around user needs & engage & empower citizens to build their communities & develop solutions.

► IT'S TIME TO GET STARTED!

Use this card & gather these Getting Started cards to take action!









Becoming data-driven involves cultural & institutional change. Applying technology is the easy part. Data Literacy can be an effective tool to address this challenge.





BUILDING BLOCK



DEFINITION

Data Visualization is the representation of information in a chart, graph, picture, etc. If we dig deeper, it's about how to visualize/present data effectively & the combination of Narrative, Visuals, & Raw Data.

SIGNIFICANCE

Without effective data visualization practice, LGUs will often make choices or mistakes that confuse & disorient the public & the residents.

► IT'S TIME TO GET STARTED!

Use this card & gather these Getting Started cards to take action!









The best visualizations help viewers understand not only the data but also its implications. Use the visuals to tell a story and to connect with your constituents.





BUILDING BLOCK



DEFINITION

Data literacy involves understanding what data means, reading graphs & charts, drawing correct conclusions from data, & how to recognize when data is being used in misleading or inappropriate ways.

SIGNIFICANCE

If LGUs & the public understand how data works & how to use it to communicate with one another effectively (e.g., Citizens understanding the data being released by the local government &, in turn, use this data to propose solutions), then solutions – digital or not – will be truly inclusive, open, & participatory.

► IT'S TIME TO GET STARTED!

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Data Literacy is the first step to building a data culture & a core skill for LGUs looking to take advantage of the opportunities data offers to create new value and improve operations.





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BUILDING BLOCK



DEFINITION

Data Fallacies are common deceptions & misuse of data leading us to false conclusions & poor decisions. One common example is Cherry-Picking - where data is selectively chosen to fit one's claim.

SIGNIFICANCE

Learning about data fallacies can help you avoid being a victim of false conclusions & poor decisions in LGUs. It highlights the importance of collecting diverse & inclusive data.

► IT'S TIME TO GET STARTED!

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The best way to avoid data fallacy is Ito improve the LGUs' self-confidence to ask the right questions & assess the data insights through data literacy training.





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BUILDING BLOCK



DEFINITION

A data inventory is a complete record of datasets that describe what they are about, sources, licenses, & other details. The details about a particular dataset are called metadata.

SIGNIFICANCE

When local government employees need information from another department, having a data inventory will make their job easier since they know what is available & where to obtain it.

► IT'S TIME TO GET STARTED!

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Managing &conducting a data inventory is essential for better data sharing & management. Data Inventory is a recurring process.





BUILDING BLOCK



DEFINITION

Smart City is a community that efficiently & responsibly uses technology and data to improve quality of life of its citizens.

SIGNIFICANCE

LGUs cannot separate technology & data from their everyday operations. The effective use of data & technologies in smart cities can save LGUs from wasting their resources. It also facilitates resiliency, sustainability & social inclusiveness.

► IT'S TIME TO GET STARTED!

Use this card & gather these Getting Started cards to take action!









Smart cities are for all LGUs, even for municipalities & rural areas, & are not different from resilient cities, sustainable cities, etc. -- they all aim to better the quality of people.





BUILDING BLOCK





DEFINITION

Data governance establishes a rule-based system for collecting, storing, processing, analyzing, & sharing data & defines the roles & responsibilities for decision-making on data; while Data Stewardship, on top of the implementation of data governance, is the facilitation & steering of publicprivate data collaboratives toward the public interest.

SIGNIFICANCE

Data Stewardship is a necessity for an effective private-public partnership involving data & without Data Governance, data scientists, technology vendors, data enthusiasts, or intrusive algorithms will define the rules of the game, risking the public interest.

► IT'S TIME TO GET STARTED!

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Data governance is an organizational capability & is not an IT or technology project nor a separate organization structure as it requires ongoing & whole-government commitment.





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BUILDING BLOCK



DEFINITION

A Dashboard is a purpose-built software that conveys information by presenting analytics & data visualizations. Dashboards organize, visualize & display curated LGU information at a glance for better communication.

SIGNIFICANCE

Dashboards are great communication tools if your residents know how to read data visualizations. LGUs can also use dashboards to set specific Key Performance Indicators (KPIs) for tracking.

► IT'S TIME TO GET STARTED!

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BUILDING BLOCK



DEFINITION

Data sharing involves the ability to prepare, release, & share, or disseminate quality data to the public & other agencies. It is the transaction of any kind of data between different people, organizations, or applications.

SIGNIFICANCE

Making the data available can save money & time by sharing data across different departments & the public. It also incentivizes the LGUs to manage better & ensure their data are of high quality & encourages more collaboration which leads to innovation.

► IT'S TIME TO GET STARTED!

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Data Literacy is the first step to building a data culture & a core skill for LGUs looking to sustain their efforts in sharing highquality data.

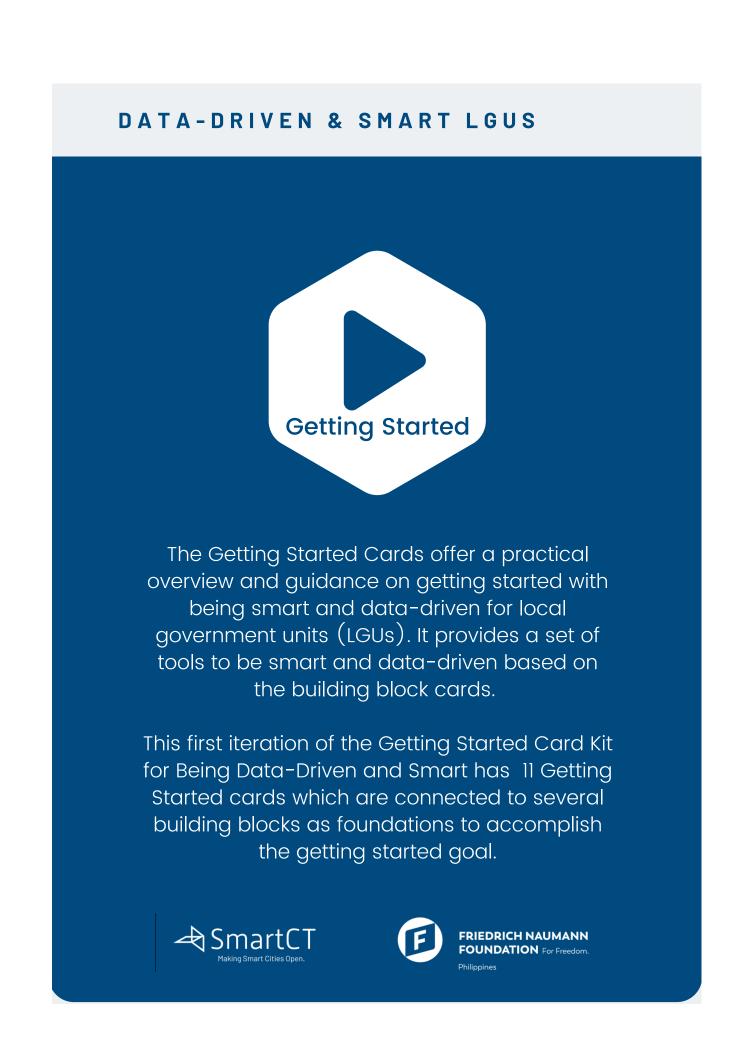


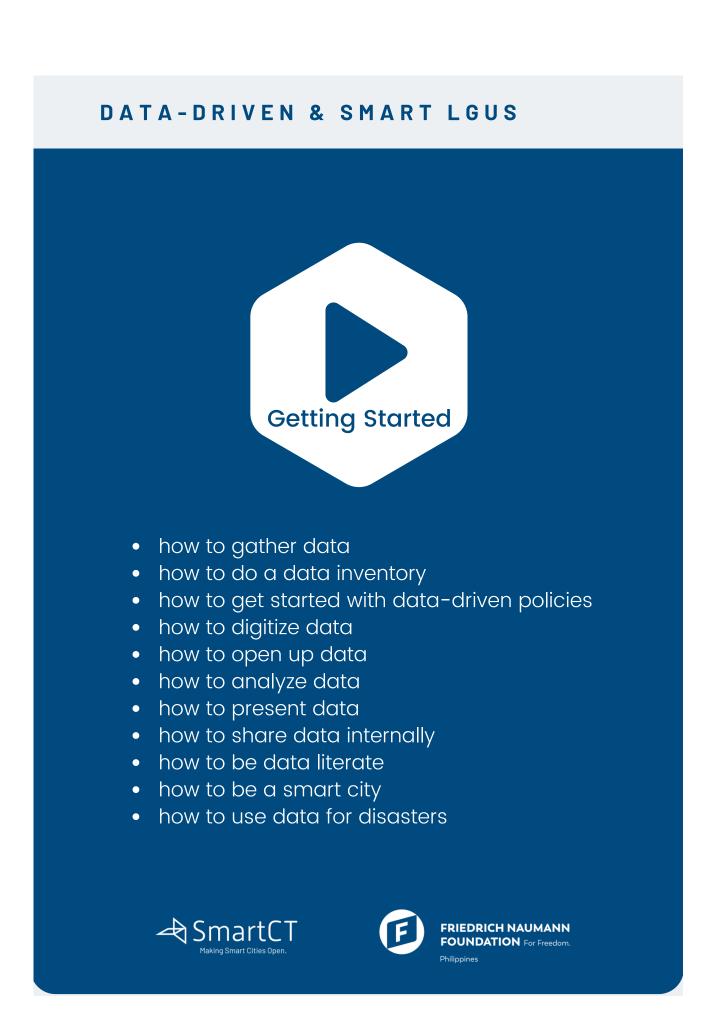


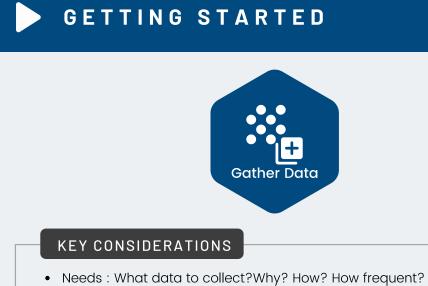
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Paper Size: A4

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- Skills: What are the Skills required for this collection?
- Data Governance: covered by what rules?
- Data Standards & File Format: Do you need spatial data, photos, flat files, Excel files, XML files?

METHODS

The 4 methods for acquiring data are Collecting new data, converting/transforming legacy data, sharing/exchanging data, & purchasing data. This also includes from manual or automated collection like weather data, surveys, records of decisions or ongoing transactions, aggregation of many records such as crime data, & mathematical modelling which is usually used in population projections, etc.

BUILD A SOLID FOUNDATION!

Gather these Building Block Cards before taking action!











GETTING STARTED



PREREQUISITES

- Data literacy to promote the capacity of the LGU work force
- Organization awareness on the timeline & goals as inventorying works best as LGU-wide effort
- Allot resources as Inventorying is a continual process -- updating of the inventory should be done routinely & regularly

STEPS

- Establish an Oversight Authority
- Determine the Data Inventory Scope & Plan
- Catalog Data Assets in Accordance with Inventory Plan
- Data Inventory Quality Checks; Initiate Data Prioritization Efforts



Gather these Building Block Cards before taking action!















PREREQUISITES

- standardisation of data collection & recording procedures
- adopt Open data & FAIR data principles (findable, accessible, interoperable, reusable)
- infrastructure to ensure the safe storage & exchange of data
- data literacy & skills to promote the capacity of the LGU work force

PILLARS

- linking new data sources, such as (real-time) sensor data to traditional statistics
- co-creation & collaboration between LGUs & citizens in policy implementation, policy evaluation, & transparency & accountability
- allowing for experimentation with new policies & developing new data-driven methodologies at the same

BUILD A SOLID FOUNDATION!

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GETTING STARTED



PREREQUISITES

- Data/Document selection criteria to digitize
- Method/s or Tools for Digitizing
- Digitization team/service
- Storage & Management methods • Data Governance & Stewardship documents

STEPS

- Initiation & mobilization of the project Selection of
- documents/records for digitization • Preparation of documents & Conversion to digital form
- Editing of the digitized documents & their storage method
- Organization of digital collection using metadata • Access & maintenance

🔍 BUILD A SOLID FOUNDATION!

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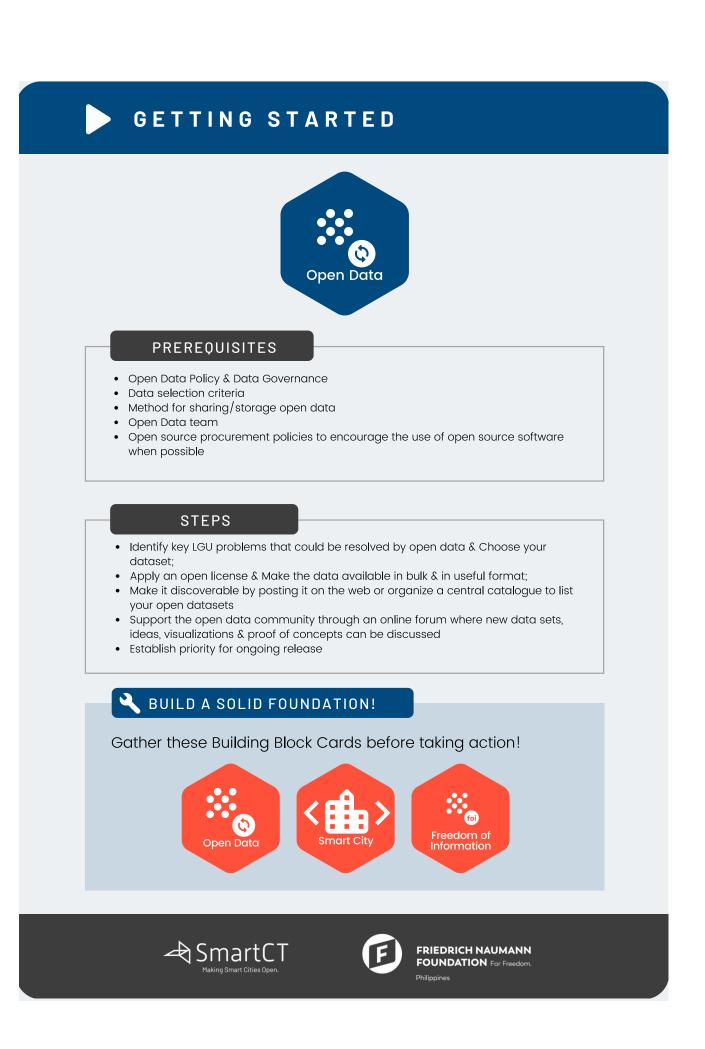


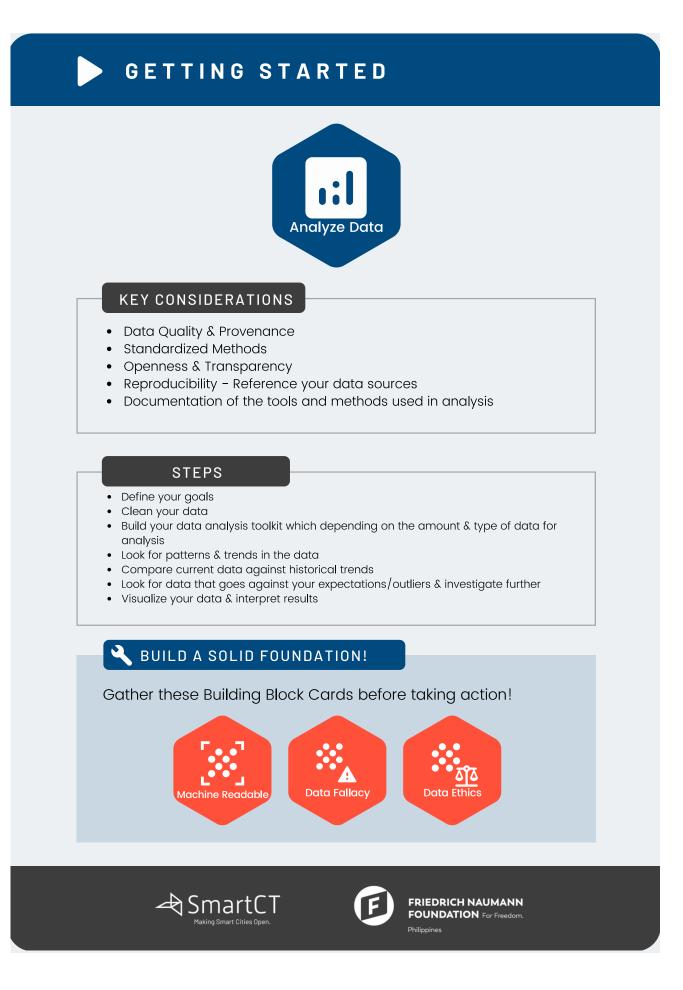
















GETTING STARTED PREREQUISITES • Identify critical data skills needed for the agency • Assess the current staff capacity for those data skills • Perform a data skills gap analysis to prioritize the agency's needs • Appoint a data champion/lead & management team STEPS • Clear- align leaders around the strategic aims , ambition & success factors for becoming data literate • Aware-Communicate the vision & case for change & begin to create ownership of the data literacy program top down & bottom up • Assess & Train - Design the tools & training based on the assessment (see prerequisites) • Sustain - continuously manage, communicate, update & monitoring the data literacy skills of the LGU workforce BUILD A SOLID FOUNDATION! Gather these Building Block Cards before taking action! *





→ SmartCT



GETTING STARTED DOMAINS • data - e.g. open data, data governance • governance - e.g. procurement, accessibility • hardware & software - e.g. interoperability, open source • people & engagement - e.g. civic tech community, data literacy STEPS • pass necessary policies: e.g. open data, data governance, opensource software-first, open government

• assess interoperability & quality of your data, systems & infrastructures & address the gaps • make data inventory a routine & prioritize the quality of your data

• have a champion & create a management team

 crowdsource/ask the residents what digital services they need/want • practice open innovation & sustain digital & data literacy





