

## **2016 ACCOMPLISHMENT REPORT**

### **Executive Summary**

The year 2016 saw progress in many projects under the Integrated Government Philippines (iGovPhil) program, including, among others, the completion and launching of the Government Network in Metro Manila, the public introduction of the National Government Portal, and the creation of an application that will help make government data more authoritative and reliable.

The most significant event of 2016 for the program, however, is the implementation of Republic Act 10844 creating the Department of Information and Communications Technology (DICT). The law, which took effect in June this year, signaled the government's seriousness in establishing a responsive and transparent e-government and the development of an ICT-based, globally competitive economy through the DICT.

RA 10844 abolished the ICT Office of the Department of Science and Technology (DOST) and transferred its functions to the DICT, including the management, operations and funding of program and projects. The iGovPhil is one of these programs, and DICT implements it jointly with the DOST's Advanced Science and Technology Institute (DOST-ASTI).

The latter half of 2016 has been a transition period for the iGovPhil program as the DICT struggles to transform itself into a full-pledged government department. Projects of the iGovPhil in infrastructure, platform, applications, and shared services, however, continued to be implemented during the transition.

#### *Infrastructure as a Service*

The Infrastructure service of the iGovPhil project is composed of the Government Network (GovNet), Government Cloud (GovCloud), National Government Data Center (NGDC), and Security Operations Center (SOC).

### **GovNet**

The Government Network (GovNet) is developed to provide sufficient bandwidth that will support the huge volume of traffic and deployment of cloud-based, common and shared services for government agencies.

This year, the installation of fiber-to-the-building (FTTB) for 160 identified government agencies in Metro Manila has been completed. These agencies are now enjoying faster and more reliable connection at a low cost. GovNet links for 148 agencies are now activated and the links for the remaining 12 agencies will be facilitated by the Operations and Maintenance contractor of GovNet NCR.

The GovNet expansion, which started last year, has also been carried over to seven regions in the country. Civil works for the installation of fiber optic cables has been completed for Pampanga, Baguio, Legaspi, and Iloilo, while 90% of the installation works has been reached for Tuguegarao, Palo, Leyte, and Butuan City.

Another accomplishment for this year is the commencement of the Strategic Engagement and Collaboration to Undertake a Reliable and Efficient Government Internet (SECURE GovNet). It is in its initial stage of planning and developing an infrastructure to support the government's Internet requirements. The infrastructure project aims to build two cable landing stations and an underground duct. The entire infrastructure may serve as a terrestrial bypass route for international cables trading for bandwidth and in exchange, the country will be provided with Internet capacity exceeding the current capacity provided by private telecommunications companies.

#### Accomplishments:

- Completed installation of network equipment to 160 government agencies in NCR and 12 agencies in Metro Cebu (Project closeout: 14 November 2016)
- Regional GovNet:

- Pampanga (Completed, 33 agencies)
- Baguio (Completed, 43 agencies)
- Legaspi (Completed, 34 agencies)
- Tuguegarao (on going restoration, 55 agencies)
- Palo, Leyte (90% completed, 20 agencies)
- Iloilo (Completed, 53 agencies)
- Butuan (90% completed, 80 agencies)

For installation (once MOA/conforme is signed): 16 agencies out of 318

- Submitted As Built Plan and Swapping Agreement
- Operations and maintenance of the Network Operations Center (NOC) was turned over to Fastel Service Inc.
- SECURE GovNet Accomplishments:
  - Completed marine survey
  - Conducted technical selection of Cable Landing Station and Repeater Station sites
  - Finalized the 240k terrestrial route (road work)
  - Facilitated land acquisition for the 2 CLS sites
  - Accomplished permits (DENR, DPWH, BFAR, MARINA)
  - ECC application, Barangay, Municipal and City Level IEC (Information Education Campaign)
  - Framework Agreement Signed 6Dec (DICT) and 12 Dec (BCDA)

## NGDC

The National Government Data Center (NGDC) serves as the launching point for many government services such as cloud computing, web hosting, server colocation, and other operations. It provides centralized servers and colocation and storage facilities for use of government agencies to outsource their data center needs.

In 2016, the NGDC team was able to start the development of data center facility in Subic and assess the NGDC in Quezon City for structural integrity. More so, rehabilitation plans, recommendations, implementation plans and strategies of NGDC 1, as well as project cost estimates for NGDC 3 in Subic were drafted.

### Accomplishments:

#### NGDC 1

- 12 government agencies are currently collocated under the NGDC 1

UP PGC	Single Sign On	PSA
IBM IOC	iGov	BIR
Noahwise	iGov PKI	COMELEC
PCSO	DICT	DOST / ASTI

- Rehabilitation of the facility:
  - Conducted data center facility assessment and recommendations to bridge identified gaps, mitigate risks, maximize capacities and compliance with Data Center Standards such as Uptime Institute, TIA & ISO
  - Drafted Terms of Reference for NGDC 1 Facility Rehabilitation, project plan development, and market study to support funding allocation for the rehabilitation
- Performed assessment of the current Network Security Infrastructure
- Drafted Terms of Reference for additional Security Infrastructure that will strengthen protection against cyberattacks and compiled market study to support funding allocations for Network Security Infrastructure

#### NGDC 2

Six government agencies are collocated under the NGDC 2

BIR	NAMRIA
CIC	DICT Free Wifi and GovCloud
DBM	BOC

#### NGDC 3

- Performed site inspection and assessment related to design development

- Assisted UP/ BRS in developing the Structural Retrofitting Design through the compilation and provision of M&E equipment dead weight load
- Developed conceptual designs for architectural, electrical, mechanical, fire protection, auxiliary system and security
- Developed Terms of Reference and market study for the NGDC 3
- Developed market study for Facility Management Services (Onsite Operations & Maintenance)
- Developed Network Infrastructure designs, technical write up, and cost estimates
- Developed Network Security Infrastructure designs, technical write up, and cost estimates
- Assisted SBMA in developing the Project Management Office (PMO) structure to oversee the project for 24 months

### **Government Cloud (GovCloud)**

For this year, the GovCloud component has worked on the completion of the installation, configuration, and implementation of the necessary tools and systems being used in the day-to-day operations. These tools and systems help guarantee the availability of all virtual machines (VMs) from 33 government agencies and for GovCloud's internal use. The technical documentation for the tools processes was also drafted. After final review, these documentations will be turned over to the DICT through the iGovPhil Project Manager for Infrastructure. Part of the turnover arrangements is the necessary documentation for the donation of GovCloud equipment (procured by ASTI for the iGovPhil Project) to the DICT.

Accommodation of new GovCloud requests have been put on hold this 2016 to give way to GovCloud's expansion of its resources to meet the demands of a whole-of-government deployment. The GovCloud team has started the required arrangements to implement the Next Generation (Next Gen) Cloud and the Government Common Platform (GCP) Cloud, each of which can provision 1,000 virtual machines. With the NextGen Cloud eventually becoming a production cluster that will host all virtual machines from government agencies, and the GCP cloud (also a production cluster) managing all iGov applications and services, the current GovCloud setup will become a development cluster.

The preparations to deploy the Next Gen Cloud have also commenced for government agencies to start availing of GovCloud's services by the first quarter of 2017.

#### **Accomplishments:**

- Virtual machine (VM) deployment:
  - Total No. of VMs: 230
  - NGDC1: 153 VMs
  - NGDC2: 77 VMs
  - Current GovCloud clients: 33 agencies

- Fully operational and fully utilized tools and systems to support GovCloud operations:
  - Inventory asset management system
  - Network backup system
  - Network device configuration management system
  - Identity and authentication management system
  - IP address management system
  - Infrastructure monitoring system
  - Asset management tool
  - Audit and configuration management system
  - Web application firewall
  
- Drafted the GovCloud Operations Manual based on the ITIL Service Operations Processes (Service Management/Request Fulfillment, Access Management, Change Management, Incident Management, Problem Management, Knowledge Management)
- Conducted Preventive Maintenance activities:
  - Rack Migration
  - Activation of 152 network
  - Migration of 154 network
  - Inactive storage
- Expansion of the current GovCloud setup to accommodate whole-of-government deployment documentation of all relevant GovCloud processes
  - Completed delivery of the GCP Hardware Project on 17 October 2016
  - Conducted UAT and Knowledge Transfer
  - Updated existing manuals and finalized priority manuals
  - Revised current GovCloud IaaS Requirements Form for requests to be accommodated in the GCP Cloud

To ensure that the GovCloud component will be able to maintain client satisfaction through the effective delivery of its services, the team will be pursuing the following milestones for 2017:

- Procure an enterprise-grade configuration management tool;
- Implement a development environment for load balancer configuration;
- Improve and implement log management in GovCloud;
- Recover and implement internal backup service;
- Train and certify GovCloud technical staff to acquire competitive skills in delivering service requirements;
- Establish service metrics that will serve as a baseline for improving services;
- Strengthen and standardize GovCloud services based on the Information Technology Infrastructure Library (ITIL) industry practice
- Foster competitive GovCloud services in IT industry recommended practice by defining the scope of GovCloud service requirements through a Service Level Agreement

## **Security Operations Center**

The iGovPhil maintains the security of its infrastructure through the Security Operations Center (SOC) by providing a centralized resource for the IT security operations and maintenance.

The SOC is responsible for conducting vulnerability management, log analysis/monitoring, network security monitoring, fine tuning, incident handling, security incident escalation, source code analysis, and application of rules and security policies, among others. These processes are made possible through the acquisition of various security tools, which include an intrusion prevention and intrusion detection system (IPS/IDS), application delivery controller, web vulnerability scanner, web application scanner, and source-code analysis tool. These tools and equipment that have been acquired will be upgraded.

### Accomplishments:

- Fully operational and fully utilized tools and systems to support the SOC's operations
  - Installation, configuration, and implementation of application delivery controller (Viprion)
  - Installation, configuration, and implementation of source code analysis tool (Checkmarx)
  - Installation, configuration, and implementation of penetration/testing tool (Core Impact)
  - Installation, configuration, and implementation of web vulnerability scanner
- Implementation of SOC processes (source- code analysis, penetration- testing, vulnerability management and assessment)
  - Facilitated vulnerability management / elimination of all Level 5 severity vulnerabilities
  - Conducted monthly vulnerability assessment for iGov, ASTI, and PREGINET
  - Completed Source code analysis for DICT, Commission on Elections (COMELEC), Professional Regulation Commission (PRC), Government Commission for GOCCs, and Local Government Academy
- Drafted documents on password policy to management cloud, How to Use QualysGuard, workflow process of Qualys, Checkmarx, and Core Impact

It was identified that the delay in the procurement of the security tools has contributed to the delayed deliverables of the SOC. The delay forced the SOC to put requests, such as source-code analysis and penetration testing, on hold. It was only in July 2016 that the delivery of all the remaining security tools has been completed. However, even with all the tools completely in place, the SOC can only accommodate selected requests and release results after at least a month at the earliest. The lack of skilled manpower that

will comply with competencies required by the SOC has also been an issue in the accomplishment of tasks.

### *Platform as a Service*

The Platform-as-a-Service offerings of the iGovPhil project include the Government Web Hosting Service (GWHS), National Government Portal (NGP), and Government Common Platform (GCP).

## **Government Web Hosting Service**

The mandatory Internet hosting of website requirements of all line agencies to the Government Web Hosting Service (GWHS) is stated under the Administrative Order no. 39 s. 2013 (AO 39) signed by then President Benigno Aquino III on 12 July 2013. Aside from allowing more efficient use of technology and greater protection against hacking and cyber attacks, being under GWHS will also give the agencies' websites a common look and feel.

As of December 2016, 82 of 210 mandated agencies were already hosted under GWHS. Of all the online gov.ph websites, 508 are already hosted. All websites under GWHS receives 24/7 operating services (Self-service portal GWHS, Help Desk, Wiki, Git, DNS Analytics). Alongside this, up-to-date packages and bug fixes for GWT for WordPress, Joomla, and Drupal. A monthly and quarterly conduct of bug fixes, updates/status on product backlogs, virtual resources of managed services, and AO39 compliance statistics were also being done.

Accomplishments:

- 24/7 operating services (GWHS, Self-Service, Help Desk, Wiki, Analytics)
  - Routine security checks and server maintenance
  - Routine support for general questions and technical issues
- Of the 210 mandated agencies, 82 agency websites are already hosted under the GWHS, 29 are currently migrating, and 99 are yet to be hosted.
- Of the 1,941 online gov.ph websites (mandated or not mandated), 510 are already hosted under GWHS, 52 are migrating, and 1,048 are yet to be hosted.
  
- Monthly and quarterly updates/status reports:
  - Monthly progress reports
  - GWHS statistics
  - GWHS incidents
- Up-to-date packages of the GWT for WordPress, Joomla, and Drupal
  - Released 2.0 major version
  - Released 2.2 minor version

## **National Government Portal**

The NGP is a single window containing all online information, operational infrastructures, and public services of the government. Through NGP, the level of e-governance in the country will be improved as the portal will not just be a platform to get information but also to perform various transactions, such as applying for a driver's license, filing of taxes, and renewing of passport.

A draft executive order instituting the NGP is being finalized. Other support policy documents – Uniform Web Content Policy, Social Media Policy, and Accessibility Rules and Regulations – were also prepared detailing the requirements for the implementation of NGP.

The NGP is currently in the development stage. It was "soft-launched" on 14 December 2016 in a semi-usable state with some completed and functional components already in place. The conduct of transition workshops for the adoption of NGP has started for some agencies. More workshops are scheduled for next year to accommodate and prepare more agencies in transitioning their information and web services to the NGP.

### **Accomplishments:**

- Produced six (6) standards documents
  - UI/UX design and methods
  - Development standards
  - Integration standards
  - QA standards
  - Build & release standards
  - Style Guide
- Four (4) policy documents consulted with Presidential Communications Office
  - Executive Order for NGP
  - Unified Web Content Policy
  - Social Media Policy
  - National Web Accessibility Guidelines
- Detailed portal architecture of the NGP
- Build and release plan
  - Build/release schedule
  - Build/release automation tools
  - Version control strategy
  - Documentation of build processes and procedures, including a deployment guide
- Modules/portlets/ web services/ theme(s), as defined in the NGP functional requirements (each functionality/ module will involve the whole SDLC process):
  - Modify theme
  - Publish theme
  - Login

- View dashboard
- Add widget
- Delete widget
- Change layout
- Update user profile
- Select accessibility
- Upload/remove picture
- Select notification
- Add/Edit/Delete web content
- Review & approve/disapprove web content
- Publish web content
- Add/Remove media
- User interface design of the portal and its components, including:
  - User research
  - Usability studies
  - User flows
  - Wireframes
  - Storyboards
  - User interaction models
  - Information architecture design
  - Proof of concept UIs
  - Interactive prototypes
- Draft detailed design specifications
- Reviewed and approved detailed design specifications of the NGP
  - Software Requirements Specifications
  - Application and Integration Requirements Specifications
  - Complete High-level and Low-level design specifications
- Components completed for a functional soft launch:
  - Updated Footer
  - Search Function
  - Links to Online services
  - Privacy Statement
  - Password Policy
  - Log in
  - Government Directory
  - E-services pages
  - GOV.PH Landing Page
  - DFA Visa Application Form
  - Social media accounts
  - Sample user profile and dashboard
  - BIR e-Registration Link
  - Pull content from RSS feeds

## **Government Common Platform**

The Philippine Government Common Platform seeks to establish unified ICT-enabled business processes among government agencies by developing policies and frameworks that promote interoperability and encourage collaboration and exchange and sharing of data.

Interoperability in the government means the agencies may use the information, services, and materials they exchange through official networks and the Internet. Under the PGCP, the Philippine e-Government Interoperability Framework (PeGIF) was established to make such activities possible among agencies.

The PeGIF is now on its third phase. Policy documents on business interoperability, the PeGIF 3.0, has already been drafted and is currently undergoing the final rounds of consultation. Through PeGIF, the PGCP will have a more definite structure.

The PGCP will be composed of seven components: (1) Interoperability, Data Governance and Stewardship Frameworks; (2) Shared Data Management; (3) National Information Exchange Infrastructure and Framework; (4) Master Data Management; (5) Business Process Management; (6) Data Warehousing; and (7) Decision Support (Data Analytics and Visualization). Some of these PGCP components have already been procured by DICT and are currently in the staging phase. They are being prepared for deployment.

Another major accomplishment of PGCP is the development of the Deduping (de-duplication) and Matching Application, which was launched on 14 December 2016. The DMA cleans databases and makes them useable and free from duplicates by matching the information against a common source. DICT collaborated with Philippine Statistics Authority for the pilot implementation of DMA. Currently, DICT is cleaning the 115 million birth records of PSA through the DMA application.

The DICT is also doing incremental upgrades in the DMA and plans to make the service available as part of the NGP. The first slice in the development of the Registry and On-boarding Application has been completed. Currently, the focus of the team is the development of the Middleware stack, which is crucial in the deployment of the GCP environment. To strengthen these initiatives, policy documents, such as GCP Data Clearing and Sharing Policy and GCP On-boarding Policy, were drafted and were subjected to a public consultation.

The GCP has also made significant steps in developing authoritative registries. The DICT has entered into a MOA with the PSA. In exchange for using DICT's DMA, the PSA has agreed to on-board its marriage and death records, aside from its birth records. The DICT is also developing the Philippine Business Data bank to aid in the ease of doing business. It has also created the Data Elements catalogue and XML Schema Definition and provided input on the Vessel Registry System.

## Accomplishments:

- Development of the Deduping and Matching Application (DMA)
- Conducted and completed Licensing and Examination Registration Information System 1&2 systems and source code audits
- Development of Registry & On-boarding applications
- Deployed server and installed the DMA to PSA
- Signed MOA for On-Premises Person Registry System (OPRS), June 20, 2016
- Collaboration group MOA has already been drafted and submitted for review by PSA
- Created Data Elements Catalogue and XML Schema Definition for Person Information and Transport Registry
- Core stack (ESB Implementation) – some of the components are ready for set-up, waiting for ESB for full implementation
- Procure GCP software and hardware
- Four (4) policy documents subjected to public consultation
  - GCP Data Clearing and Sharing Policy
  - GCP Onboarding Policy
  - PeGIF 1.1
  - PeGIF 3.0 – Business Interoperability
- On-going testing of PSA birth records (115M+)
- created three (3) modules for the Philippine Business Data Bank
  - Upload
  - User Management
  - Search

## **FUTURE PLANS**

The passage of RA10844, creating the Department of Information and Communications Technology (DICT), came almost at same time that a new administration took over the reins of government in June 2016 after national elections in May.

In his first State-of-the-Nation Address, President Rodrigo Duterte specifically ordered the DICT to develop a national broadband plan and provide free WiFi access in public places across the country for the benefit of the country

These tasks are part of the DICT's mandate of being the "primary policy, planning, coordinating, implementing, and administrative entity of the Executive Branch of the government that will plan, develop, and promote the national ICT development agenda."

The focus of the DICT from now on is the development of the National Broadband Plan, the continuation of the free WiFi in public places project, and the implementation of the National Government Portal. Together, they are envisioned to create an ICT environment that will simplify and enhance government processes and services.

### **National Broadband Plan**

The National Broadband Plan is an ambitious project that aims to provide faster, affordable and universal internet access for all Filipinos by 2020. The 77.88 billion-peso project will use existing government resources, enter into partnership with the private sector for support and build new infrastructures to provide a broadband network for the country.

### **Free Wifi in Public Places**

The 3 billion-peso Free Wi-Fi Internet Access in Public Places Project aims to provide Internet access in areas like parks, plazas, public libraries, schools, government hospitals, train stations, airports, and seaports. Free WiFi will be available in 13,024 public places in 1,634 cities and municipalities across the Philippines by the end of 2017.

### **National Government Portal**

The NGP aims to provide a one-stop shop of online government services to the public and private sectors. It was soft-launched in December 2016 and will be ready for production, and available 24/7, in the first quarter of 2017.

Plans for NGP include identifying the support team and the SOP and operations manual to be developed, and migration of documents and government sites to the portal. The team also plans to work with the DFA and finalize the system requirements for visa application by February and have the Beta version ready by June. Other plans are the building of a Filipino-English dictionary, coordinating with the National Privacy Commission on data privacy and data sharing, coordinating with Free-Wifi Project for a shared registration and login, and coordinating with MITHI project to promote NGP.

Other projects will continue to be pursued in support of these three initiatives.

### **Government Network**

Plans for GovNet include the integration with the Free WiFi and the PAGASA projects:

PLANNED MAJOR FINAL OUTPUT FOR 2017	DELIVERABLES / ACTIVITIES	TIMELINE	ISSUES
I. Integration of Wifi and Government Network	<b>LUZON CLUSTER</b>		
	<i>Tuguegarao</i>		
	Activate connectivity/internet link - Install active equipment (switches and media converters)	Q1 of 2017	Scheduling
	Procure, install, and deploy IP radio	Dec 2016 – March 2017	➤ No budget and labor allotted for

			<p>additional materials (such as antenna mast, etc.) necessary for the installation</p> <ul style="list-style-type: none"> <li>➤ No system integrator identified</li> <li>➤ Compatibility issues (different brands of IP radio require different kinds of provisioning)</li> <li>➤ Lack of skilled manpower</li> </ul>
	Install FOC from DOST to DICT office	Q2 of 2017	No budget allocated yet
<i>Baguio</i>			
	Activate connectivity/internet link - Install active equipment (switches and media converters)	Q1 of 2017	<p>Scheduling</p> <p>* Deployment of Wifi PoP in Baguio will be determined by Free Wifi team</p>
<i>Pampanga</i>			
	Activate connectivity/internet link - Install active equipment (switches and media converters)	Q1 – Q2 of 2017	Scheduling
	Interconnect IP radio	Q1 – Q2 of 2017	Supply of IP radio
	Prepare Terms of Reference	Q1 – Q2 of 2017	
	Conduct site survey	Q1 – Q2 of 2017	
<i>Legazpi</i>			
	Activate connectivity/internet link - Install active equipment (switches and media converters)	Q1 – Q2 of 2017	Scheduling
	Procure, install, and deploy IP radio	Dec 2016 – March 2017	<ul style="list-style-type: none"> <li>➤ No budget and labor allotted for additional materials (antenna</li> </ul>

			<p>mast, necessary for the installation</p> <ul style="list-style-type: none"> <li>➤ No system integrator identified</li> <li>➤ Compatibility issues (different brands of IP radio require different kinds of provisioning)</li> <li>➤ Technical capacity of manpower</li> <li>➤ No budget and labor allotted for additional materials (antenna mast, necessary for the installation)</li> </ul>
<b>VISAYAS CLUSTER</b>			
<i>Palo-Tacloban</i>			
Conduct Survey	January 2017		
Procure IP Radio or Fiber, depending on the results of the survey	February 2017		
Install, test, and commission FOC	Q2 of 2017		
<i>Iloilo</i>			
Procure equipment to connect two points (e.g. media converters)	Q2 of 2017		
<i>Cebu</i>			
Procure equipment to connect two points (e.g. media converters)	Q2 of 2017		
Cebu-Iloilo (DICT, Iloilo and DICT, Cebu)	Q1 of 2017		Commercial power not available in Negros Occidental, only solar power is available
Procure solar panels			
<b>MINDANAO CLUSTER</b>			
<i>Zamboanga City</i>			
Validate list of sites/agencies and route plan previously submitted to GovNet NCR	Q1 of 2017		
Conduct forum/consultation with	Q1 of 2017		

	the recipients		
	Review and finalize TOR	Q1 of 2017	
	<i>Cagayan de Oro</i>		
	Hold launching ceremony for Butuan GovNet	Q1 of 2017	Laying out of cables is still ongoing
	Procure routers for the integration	Q2 of 2017	Laying out of cables is still ongoing
	<i>Davao City</i>		
	Validate GovNet recipients (NGAs) through site visits	Q1 of 2017	Lack of resources (ex. vehicle) to carry out planned activities
	Conduct forum/consultation with the recipient agencies	Q1 of 2017	Fund allocation  * Regional FOCs to request collaterals from DICT for the consultation
	Hire additional personnel	Q1 of 2017	
	Review and finalization TOR	Q1 of 2017	
II.	Phase II of Regional GovNet	<i>Zamboanga, Davao, CDO, San Fernando, La Union</i>	
	Finalize Terms of Reference (IRU)	Q1 of 2017	
	Conduct initial consultation with stakeholders	Q1 of 2017	Fund allocation
III.	DICT and PAGASA Project (Phase 1)	<i>Legazpi</i>	
	Conduct site survey, secure permits	Q1 of 2017	
	Prepare TOR	Q1 of 2017	
	Install PAGASA link	Q2 of 2017	
	<i>Mactan, Cebu; Jaro, Iloilo City; Tacloban</i>		
	Conduct Final Survey	January 2017	
	*Submit Assessment Reports, including Route Plan, and Air distance		
	Procure equipment and secure permits	January – June 2017	
	Install, test, and commission FOC	Q2 of 2017	
	<ul style="list-style-type: none"> <li>• Palo and Tacloban - Layout FOC with connection (Phase I)</li> <li>• Mactan - IP Radio</li> <li>• Iloilo - Hybrid:</li> </ul>		

	FOC and IP Radio (Phase II)		
	<i>Zamboanga, Davao, Cagayan de Oro, and Davao City</i>		
	Survey distance from PAGASA to PoP  *Cluster 3 has conducted initial survey on cable route in one PAGASA office	Q1 of 2017	
	Process applications to cooperatives to use posts for FOC (except for Davao City)	Q1 of 2017	
	Hire additional personnel		

**National Government Data Center**

- Install and commission additional next generation network security infrastructure to strengthen NGDC security, conduct periodic penetration tests and develop security policies adoptable across the organization.
- Develop Operations and Maintenance (O&M) manuals, including maintenance standards, technical support standards, troubleshooting guidelines and deployment policies.
- Develop training programs for data center operations and maintenance teams and secure globally recognized certifications.
- Develop facility design standards, roadmap and guidelines for equipment refresh standards (to sustain availability level appropriate for Tier III).
- Develop standardized technical specifications documents.
- Manage O&M Manuals, technical specifications documents and design standards as ‘Live Documents’ (means updating to be done periodically to keep it up to date).
- Develop feasibility studies for Greenfield Consolidated Data Center with the intent of building a business case covering the following:
  - Significant cost savings for the government year-on-year
  - Set accountability on the facility’s operations and maintenance
  - Ease of operations
  - Operational efficiencies

Feasibility studies to provide the following information:

- High availability and facility redundancy strategies
- Total cost of ownership based on NPV (Net Present Value) – 10-Year TCO Analysis
- Define tangible and non-tangible benefits
- Site selection criteria

- Standardized conceptual designs covering all engineering trades/disciplines
- Operations and maintenance structure and strategies
- Technical specifications
- Risk assessment and management
- Efficiency baselines

For NGDC 2

- Setup co-use agreement with ASTI by March 2017

For NGDC 3

- Awarding of the structural retrofitting (actual work: 6 months) project to winning bidder.
- Development of the data center (actual work: 10 months)
  - Transfer of funds (pending MOA)
  - Start of bidding (Q1 2017)

For NGDC 4

- Bidding for space lease (10 racks) – for BAC resolution

For GovCloud

- Draft a joint management agreement between DICT and DOST-ASTI pertaining to iGov-owned equipment and other infra assets, NGDC, network, scope and delineation of work. (March 2017)
- Develop TOR for GCP Cloud Managed Service - Current GovCloud setup will be a development cluster to be used as testbed. Will be maintained in-house.
- Develop TOR for Site 1 scale-up and setup of Site 2 with Managed Service. (Q1 2017)

### **Security Operations Center**

- Core Impact and Acunetix Training and Operationalization - Equipment ready, problem is staff to operate/manage
- Source code analysis backlogs and penetration-testing requests - Not all backlogs have been addressed because SCA is still being done by the NetSec consultants
- SOC Operations Manual
- Hire and establish in-house SOC
- Hire a dedicated technical writer for SOC

- Create change request management processes, change release processes, continual improvement processes
- Perform transition to DICT

### **Government Common Platform (GCP)**

- Optimize DMA and make it available on GovCloud for use by NGAs – Q1
- Engage and accommodate 5 agencies for DMA – Q1
- Finalize draft of Collaborative group MOA and route to BIR, DOH/PHIC, and DICT – Q1
- Conduct DMA MOA signing between DICT and Professional Regulations Commission - Q2
- Process agreement to process PSA Marriage and Death Registries with UMID - Q2
- Make Trade Application production-ready – Q2 to Q3
- Conduct ceremonies, roadshows, launches, and training of completed apps & services with ASTI – Q1 to Q4
- Confirm available budget for 2017 for PeGIEEx funded projects and confirm availability of P40M budget for Middleware procurement – Q1

### **Open Data**

- Hold an Open Data briefing for DICT EXCOM - April
- Conduct consultation sessions and/or roadshows with stakeholders (in cooperation with PCOO & DBM) - January to March
- Conduct IEC campaign on Open Data standards for stakeholders - April to June
- Hold a team planning event for the Action Plan - January and July
- Hold the following training:
  - Advanced training on data management and curation for Open Data team - March and August
  - Data management & curation and AMT Training for NGAs - April and September
  - Open Data Hackathon - November

### **EXISTING APPLICATIONS**

#### **ARMIS**

- Ensure uptime and system availability (Q1 – Q4)
- Continue operations and maintenance and technical support via helpdesk, phone and email (Q1 – Q4)

- Continuous adoption efforts (Q1 – Q4)
- Review ARMIS design with PCO and NAP re: FOI (Q2)
- Develop of ARMIS 2.0 (3Q)
- Relaunch of ARMIS 2.0 (4Q)

### **PMGov**

- Ensure uptime and system availability (Q1 – Q4)
- Continue operations and maintenance and technical support via helpdesk, phone and email (Q1 – Q4)
- Continuous adoption efforts (Q1 – Q4)

### **FormsGenerator | Forms Builder**

- Ensure uptime and system availability (Q1 – Q4)
- Continue operations and maintenance and technical support via helpdesk, phone and email (Q1 – Q4)
- Continuous adoption efforts (Q1 – Q4)
- Make FormsGen Forms compatible with FormsBuilder (Q1)
- Ready FormsBuilder for production (Q2)
- Relaunch for FormsBuilder (Q2)

### **PhPay**

- Design Specifications Documentation and define technical policies and procedures (Q1)
- Prepare mock ups, entity relationship diagrams, databases, software architecture, processes, and Source Code Assessment for existing PhPay (Q1)
- Build registries (UACS, SKU Classifications) (Q2)
- Enroll products, services, EPFs, banks (Q2, March)
- Conduct testing (Late Q2)

### **Gabay Aral**

- Scale up Gabay Aral to Coursera (ALS beyond K-12)
- Draft concept paper/ proposal for Gabay Aral for possible champion (CHED, TESDA, SUCs) (Q1)
- Discuss the Gabay Aral plans to champion (Q1 – Q2)
- Form the initial content of Gabay Aral 2.0 (Q2)
- Redevelop and rebrand Gabay Aral (Q3) and hold beta launching (Q4)

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