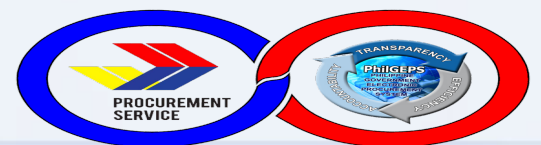


# PHILIPPINE GOVERNMENT ELECTRONIC PROCUREMENT SYSTEM (PHILGEPS) : SECURITY AND INTEROPERABILITY

**A PRESENTATION TO THE 3<sup>RD</sup> ASIA PACIFIC ELECTRONIC PROCUREMENT NETWORK  
OCTOBER 2-5, TBILISI, GEORGIA**



# Outline

- ✧ The Philippine Government Electronic Procurement System Overview
- ✧ Security
- ✧ Interoperability
- ✧ Conclusion

# PhilGEPS Overview

The PhilGEPS (Philippine Government Electronic Procurement System) is the single, centralized electronic portal that shall serve as the primary and definitive source of information on government procurement. (Section 8 R.A. 9184)

# Features and Functionalities



# Features and Functionalities

Infographics and other PhilGEPS functionalities in the homepage

[Home](#)

[Announcements](#)

[Opportunities](#)

[Open Data](#)

[2017 PBB](#)

[LOGIN AS SUPPLIER / CSO](#)

[LOGIN AS BUYER / OTHER USERS](#)

[Open Data](#) / [Data](#)



Standard Reports and Datasets



Registered Suppliers



Bid and Award Notices Infographics



Supplier Registration Infographics



Agency Registration Infographics

# BUSINESS MODEL

**Government Managed** - the system development and technical operation are outsourced to a private service provider. Government is managing the operation and the management of the users. Revenues are generated from system users to cover the cost of operating an e-GP system.



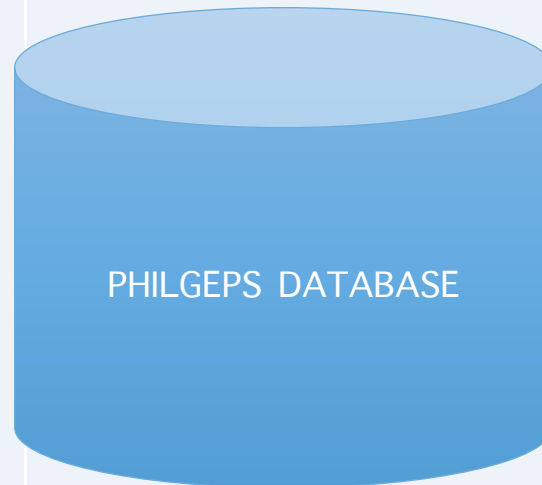
# PhilGEPS DATA Users

- ❖ GOVERNMENT PROCUREMENT POLICY BOARD AND ITS TECH. SUPPORT OFFICE

- ❖ GOVERNMENT AUDITORS

- ❖ GOVERNMENT PROCURING ENTITIES

- ❖ OMBUDSMAN



- ❖ CIVIL SOCIETY ORGANIZATIONS

- ❖ STUDENTS AND RESEARCHERS

- ❖ COURTS

- ❖ MERCHANTS

- ❖ LEGISLATIVE (SENATE AND HOUSE OF REPRESENTATIVES)



# SECURITY

INFORMATION SECURITY

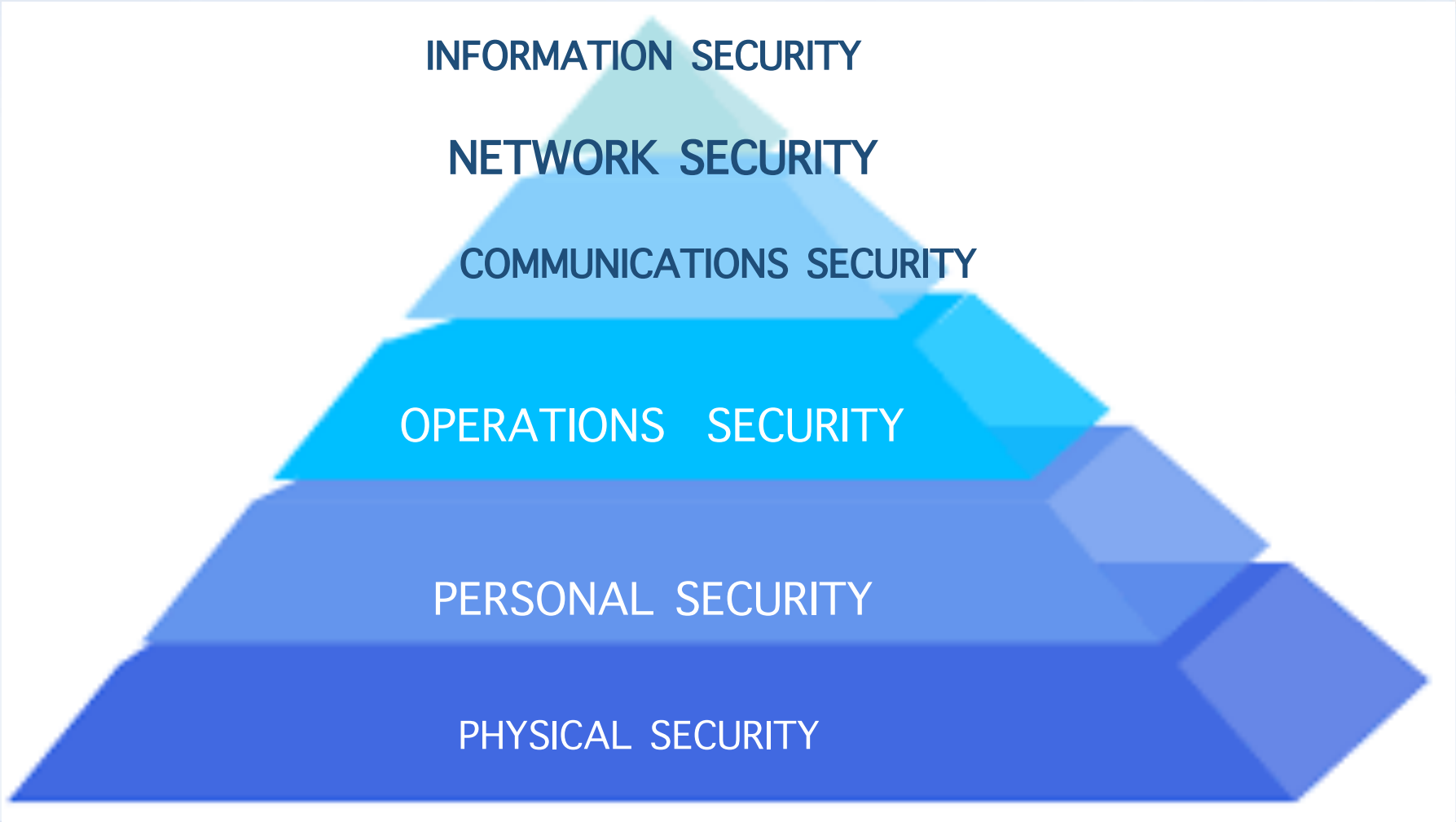
NETWORK SECURITY

COMMUNICATIONS SECURITY

OPERATIONS SECURITY

PERSONAL SECURITY

PHYSICAL SECURITY





# SECURITY IMPLEMENTATION IN PHILGEPS

ENCRYPTION/DECRYPTION/BACKUP/AUDIT TRAILS/ANTI-VIRUS

FIREWALL, IDS, VPN

SECURE SOCKET LAYER (SSL)

POLICIES AND PROCEDURES

USERS ACCESS RIGHTS AND PRIVILEGES/ ID AND  
PASSWORD/PASSPHRASE

DATA CENTER (PHYSICAL) ACCESS TO FACILITIES

# USER ACCESS RIGHTS

- ✧ Buyer Coordinator
- ✧ Buyer
- ✧ Supplier Coordinator
- ✧ Supplier
- ✧ Bid Openers
- ✧ BAC Members
- ✧ Super Administrator
- ✧ Administrators
- ✧ Auditors

# POLICIES

## ➤ Section 9 OF RA 9184. Security, Integrity and Confidentiality

The PhilGEPS shall incorporate the following features, which shall be periodically upgraded to keep abreast with developments in technology:

- a) Security – The PhilGEPS shall be protected from unauthorized access or interference through the incorporation of security features such as, but not limited to, firewalls. Periodic tests shall be conducted to ensure that the system cannot be breached.
- b) Integrity – The PhilGEPS shall ensure that no person, including the system administrators and chairperson and members of the BAC, shall be able to alter the contents of bids submitted through the system or read the same ahead of the stipulated time for the decryption or opening of bids. For this purpose, bids submitted through the PhilGEPS shall be sealed through electronic keys. The authenticity of messages and documents submitted through the PhilGEPS shall also be ensured by the use of electronic signatures.

# POLICIES

c) Confidentiality – The PhilGEPS shall ensure the privacy of parties transacting with it. For this purpose, no electronic message or document sent through the system shall be divulged to third parties unless such electronic message or document was sent after the sender was informed that the same will be made publicly available.

The PhilGEPS shall protect the intellectual property rights over documents, including technical designs, submitted in response to Invitations to Bid.

d) Audit Trail – The PhilGEPS shall include a feature that provides for an audit trail for on- line transactions, and allows the Commission on Audit (COA) to verify the security and integrity of the system at any time.

# POLICIES

8.6.4. Without prejudice to criminal prosecution under the applicable provisions of the Act and this IRR, R.A. 8792, R.A. 3019, otherwise known as the “Anti-Graft and Corrupt Practices Act,” and other applicable penal laws, public officials and employees who commit any of the following acts shall be deemed to have committed grave misconduct and shall be sanctioned and/or penalized in accordance with the applicable Civil Service rules and regulations:

- a) Opening or decryption, by whatever means, of bids submitted through the PhilGEPS ahead of the appointed time for the opening or decryption of such bids;
- b) Causing the unauthorized disclosure of any information or document submitted through the PhilGEPS;

# POLICIES

- c) Hacking into or cracking the PhilGEPS, or aiding another person to hack into or crack the same; or
- d) Any other act that breaches or violates the security, integrity, and confidentiality of the PhilGEPS.

8.6.5. When any of the foregoing acts is done by the administrator(s) or employee(s) of a service provider hired by a Procuring Entity, or in collusion with, or by a private party who is a participant in the bidding process, said administrator(s), employee(s) or private party shall be imposed the corresponding sanctions and/or penalties under this IRR.

# INTEROPERABILITY

➤ Use of Application Program Interface (API) for the following :

❖ Integrated Notices Publication Interface (INPI)

❖ Open Data



# PLANS FOR THE FUTURE

## SECURITY

- USE OF PUBLIC KEY INFRASTRUCTURE (PKI)/  
DIGITAL SIGNATURES

## INTEROPERABILITY

- Use of Open Standards
- Use of Open Data Standards (Inclusion of a  
Common Identifier to be able to link data  
from one information system to another)

# CONCLUSION

- ✓ SECURITY OF INFORMATION SYSTEMS CANNOT ONLY BE IMPLEMENTED THROUGH THE USE OF EQUIPMENT AND TECHNOLOGY
- ✓ DEVELOP, IMPLEMENT AND TEST THE SECURITY PLAN
- ✓ SECURITY IS EVERYONE'S RESPONSIBILITY AND THUS, EMPLOYEES AND USERS OF THE SYSTEM MUST BE EDUCATED WITH REGARD TO INFORMATION SECURITY

# CONCLUSION

- ✓ WE MUST USE OPEN STANDARDS, OPEN DATA STANDARDS TO ENSURE INTEROPERABILITY

# THANK YOU!



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