

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah : Application of LEAP model on long-term electricity demand forecasting in Indonesia, period 2010-2025

Jumlah Penulis : 3 Orang (**Jaka Windarta**, Bambang Purwanggono and Fuad Hidayanto)

Status Pengusul : Penulis ke – 1

Identitas Prosiding :

- a. Judul Prosiding : International Cooperation for Education about Standardization 2018 (ICES 2018)
- b. ISBN/ISSN : 2261 – 2424
- c. Thn Terbit, Tempat Pelaks. : 2018, Yogyakarta, Indonesia
- d. Penerbit/Organiser : EDP Sciences
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Alamat Artikel : https://www.shs-conferences.org/articles/shsconf/pdf/2018/10/shsconf_ices2018_02007.pdf

f. Terindeks di (jika ada) : Scopus

Kategori Publikasi Makalah : ☐ *Prosiding* Forum Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☐ *Prosiding* Forum Ilmiah Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi prosiding (10%)	2	2,4	2,2
b. Ruang lingkup dan kedalaman pembahasan (30%)	7	7	7
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7	7	7
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	7,5	7	7,25
Total = (100%)	23,5	23,4	23,45
Nilai Pengusul = (60% × 23,45) = 14,07			

Semarang,

Reviewer 2



Mochammad Facta, S.T., M.T., Ph.D.
 NIP. 197106161999031003
 Unit : Teknik Elektro FT UNDIP

Reviewer 1



Dr. Wahyudi, ST, MT
 NIP. 196906121994031001
 Unit : Teknik Elektro FT UNDIP

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
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Kategori Publikasi Makalah : ☐ Prosiding Forum Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☒ Prosiding Forum Ilmiah Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional <input type="text" value="25"/>	Nasional <input type="text"/>	
a. Kelengkapan unsur isi prosiding (10%)	2,50		2
b. Ruang lingkup dan kedalaman pembahasan (30%)	7,50		7
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7,50		7
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	7,50		7,5
Total = (100%)	25,00		23,5
Nilai Pengusul = (60% × 23,5) = 14,1			

Catatan Penilaian Paper oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur isi paper:

Unsur paper : pendahuluan, teori, metodologi, hasil dan diskusi, kesimpulan dan daftar pustaka. Terdapat penggunaan bahasa Indonesia pada GG. 2 dan Tabel 1 – 3 (desimal dengan koma), semua pustaka.

2. Ruang lingkup dan kedalaman pembahasan:

Pada pembahasan tidak menyebutkan kekurangan penelitian sebelumnya dan tidak ada keterlibatan pustaka pada pembahasan.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Kemutakhiran data cukup, lebih dari setengah jumlah pustaka yang diacu kurang dari 10 tahun, namun yang berasal dari jurnal dan seminar sangat minim.

4. Kelengkapan unsur dan kualitas terbitan:

Kualitas terbitan cukup bagus : terdapat editor, petunjuk penulisan paper bagi pemakalah, seminar terindeks Scopus.

Semarang,

Reviewer 1



Dr. Wahyudi, ST, MT
 NIP. 196906121994031001
 Unit : Teknik Elektro FT UNDIP

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
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f. Terindeks di (jika ada) : Scopus

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 (beri ✓ pada kategori yang tepat) ☐ Prosiding Forum Ilmiah Nasional

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Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional <input type="text" value="25"/>	Nasional <input type="text"/>	
a. Kelengkapan unsur isi prosiding (10%)	2,50		2,4
b. Ruang lingkup dan kedalaman pembahasan (30%)	7,50		7
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7,50		7
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	7,50		7
Total = (100%)	25,00		23,4
Nilai Pengusul = (60% × 23,4) = 14,04			

Catatan Penilaian Paper oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur isi paper:

Makalah telah ditulis sesuai dengan format dan kaidah ilmu yang berlaku secara umum untuk penulisan makalah prosiding internasional. Makalah ditulis secara lengkap dan sistematis yang mencakup abstract, introduction, literature, mothodology, result and discusstion, dan reference. Terdapat penerapan solusi dalam simulasi perangkat lunak LEAP untuk periode data prakiraan di tahun 2010-2025

2. Ruang lingkup dan kedalaman pembahasan:

Detail ruang lingkup dan kedalaman pembahasan sudah sesuai, kedalaman analisa sangat baik, tinjauan pendekatan teori, analisa dan kesimpulan jelas, tahapan dan susunan penulisan cukup bagus disertai grafik prsiksi long term electricity demand.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Data dan informasi disajikan dengan sangat baik dengan merujuk 14 referensi. Jumlah dan tahun terbit paper-paper yang dijadikan referensi pada paper ini cukup memadai dan lengkap, demikian pula data dan informasi yang disajikan cukup mutakhir dan lengkap.

4. Kelengkapan unsur dan kualitas terbitan:

International Cooperation for Education about Standardization 2018 (ICES 2018), ISBN/ISSN : 2261-2424, 2018, https://www.shs-conferences.org/articles/shsconf/pdf/2018/10/shsconf_ices2018_02007.pdf, Terindex Scopus. Proceeding ini diterbitkan oleh publisher WHS WoC dan bagian dari prosiding konferense internasional yang telah dikenal dan tersitasi di SCOPUS yang konsisten menerbitkan setiap edisinya lengkap dan memiliki kualitas cetakan yang baik. Ukuran dan font tulisan dapat terbaca dengan jelas.

Semarang,

Reviewer 2

A handwritten signature in black ink, appearing to read 'Mochammad Facta', enclosed within a simple, hand-drawn rectangular border.

Mochammad Facta, S.T., M.T., Ph.D.


NIP. 197106161999031003


Unit : Teknik Elektro FT UNDIP

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Author name

☐ Hidayanto, F. (1) >

☐ Purwanggono, B (1) >


☐ Windarta, J. (1) >

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BSN memberikan kesempatan kepada para penggiat pendidikan standardisasi dari kalangan regulator, industri, maupun akademisi untuk dapat berpartisipasi aktif melalui ***Call for Papers*** demi kesuksesan kegiatan ini, dengan ketentuan sebagai berikut:

- Melakukan registrasi melalui website ices2018.uui.ac.id
- Mengunggah paper pada *submission portal EasyChair*; atau mengirimkan paper tersebut melalui email ices2018@uui.ac.id
- Paper maksimal 6 (enam) halaman
- Topik paper:

1. *Standardization and Standards Education*

- *Development, management, implementation, and maintenance of Standards Education in the field of Industry and Engineering, Science, and Management.*

ICES 2018 Conference
Joint International Conference
with **5th ACISE**
and **World Standard Council Academic Day**

3,4,5 July 2018 | EastParc Hotel, Yogyakarta, Indonesia

*Strengthening Industry and Engineering, Science, and Management Education
through Standardization Learning*

WSC Academic Day Topic:
Leveraging Internet-based technologies to teach standardization

The International Cooperation for Education about Standardization (ICES) is an international collaboration of individuals representing government, industry, academia, national and international standards bodies, and consortia that is dedicated to promoting education about standardization (including training for current and future standards professionals), improving its quality and attractiveness for all stakeholders, and stimulating dialogue and research. The collaboration benefits from the varying experience, processes, models and attention in education found in different global regions and considers the importance of dynamic and strategic, geographic, sector and teaching contexts in how standards are developed –indeed this is the focus of this year's program.

ICES 2018 Conference

Ensuring well integration, interoperability, and security is crucial in the future, where variety of data and manufacture comes as a product of the exponential grow in technology and data. This is where the standard comes as the key role to address the issue. The International Cooperation on Education about Standardization 2018 Conference (ICES 2018 Conference) is an international forum for the exchange of ideas, knowledge, and experience on the latest development in the field of standardization and standardization education among researchers and practitioners. The conference is also expected to enhance opportunities for collaboration among the participants to share and to advance the theory and practice in the fields. In 2018 ICES Meeting and Conference will be organized jointly with the 5th Annual Conference on Industrial and System Engineering (ACISE).

5th ACISE

The 5th Annual Conference on Industrial and System Engineering (ACISE) is an international conference held by the Department of Industrial Engineering of Diponegoro University. The conference which is addressed for researchers and students in industrial and system engineering disciplines aims to gather, interact, and discuss their research as well as to disseminate the innovative ideas, invention, and research in the industrial and system engineering field. The topics related to advances in industrial engineering theory, techniques, methodology, applications and practice; general surveys and critical reviews; etc. will be pondered on, through the interactions between academic researchers from different regions and cultures.

Full papers (up to 6 pages) should follow the template, and should be submitted through EasyChair. All papers will be peer reviewed by members of the Technical Program Committee. All accepted and presented papers will be published in the online conference proceedings. Please go to ices2018.uui.ac.id for the complete submission guide.

Topics

Papers on original works are solicited on a variety of topics including, but not limited to the following topics:

1. Development, management, implementation, and maintenance of standards education in the field of Industry and engineering, science, and management.
2. Development, management, implementation, and maintenance of standards in engineering, science, and management field (architectures, systems, processes, converging technologies, roadmaps, open source, policy.

Technical Program Committee:

Dradjad Irianto (Institut Teknologi Bandung, Indonesia) | I Ketut Suter (Universitas Udayana, Indonesia) | Nurjanah (Institut Pertanian Bogor, Indonesia) | Moses L. Singgih (Institut Teknologi Surabaya, Indonesia) | Indra Surjati (Universitas Trisakti, Indonesia) | Henk DeVries (Erasmus University, Netherlands) | Knut Blind (Technische Universität Berlin, Germany) | Steve Elliot (Purdue University, USA) | Ivana Mijatovic (University of Beograd, Serbia) | Donggeun Choi (Chief Manager of Korean Standards Association, Rep. of Korea) | Ajat Sudrajat (Universitas Nasional, Indonesia) | Wini Trilaksana (Institut Pertanian Bogor, Indonesia) | Suharyanto (UNSRI, Indonesia) | Chuang-Chun Chiou (Tungshai University, Taiwan)

IMPORTANT DATES

1st deadline for paper submission
15 Feb 2018
1st notification of acceptance paper
15 Mar 2018
Author First Registration
6 Apr 2018

2nd deadline for paper submission
15 Apr 2018
2nd notification of acceptance paper
15 May 2018
Deadline for camera ready
1 Jun 2018

Payment deadline
15 Jun 2018

ICES 2018 Conference date
3-4 Jul 2018
WSC Academic Day
5 Jul 2018

Conference Chair:

Bambang Purwanggono (Diponegoro University, Indonesia and ICES Board Member)

Website:

ices2018.uui.ac.id

E-mail:

ices2018@uui.ac.id





FORSTAN
FORSTAN



ICES 2018 Conference

Joint International Conference
with 5th ACISE, and
World Standard Cooperation Academic Day

*Strengthening Industry and Engineering, Science,
and Management Education through Standardization Learning*

3,4,5 July 2018
EastParc Hotel, Yogyakarta, Indonesia

Ensuring well integration, interoperability, and security is crucial in the future, where variety of data and manufacture comes as a product of the exponential grow in technology and data. This is where the standard comes as the key role to address the issue. The International Cooperation on Education about Standardization 2018 Conference (ICES 2018 Conference) is an international forum for the exchange of ideas, knowledge, and experience on the latest development in the field of standardization and standardization education among researchers and practitioners. In 2018 ICES Meeting and Conference will be organized jointly with the 5th Annual Conference on Industrial and System Engineering (ACISE).

Conference Venue:
EastParc Hotel
Yogyakarta, Indonesia.

Organized by:
Islamic University of Indonesia (Host)
National Standardization Body
Diponegoro University

Keynote Speakers



**Minister of Industry
Republic of Indonesia**



**Head of National Standardization Body
of Indonesia (BSN)**

ICES 2018 | ices2018.uui.ac.id | ices2018@uui.ac.id



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IMPORTANT DATES

Deadline for paper submission : 15 April 2018
Notification of acceptance paper : 15 May 2018
Deadline for camera ready : 1 June 2018
Author Registration : 6 June 2018
Payment deadline : 15 June 2018
Conference due : 3-4-5 July 2018
Contact and Enquiries: **Dhomas Hatta F.** (hatta.fudholi@uui.ac.id)

TOPICS

Track 1: Standardization and Standards Education

Development, management, implementation, and maintenance of Standards Education in the field of Industry and Engineering, Science, and Management.

Development, management, implementation, and maintenance of standards in Engineering, Science, and Management Field (Architectures, Systems, Processes, Converging Technologies, Roadmaps, Open Source, Policy, and Knowledge Transfer).

Track 2: Industrial and System Engineering

Supply Chain Management, Research Operation, Industrial Management and Engineering, Production System and Manufacture, Engineering and Quality Management, Renewable Energy, Green Technology, Work Safety and Ergonomics, Healthcare, Industry 4.0.

Full papers (up to 6 pages) should follow the template, and should be submitted through EasyChair. All papers will be peer reviewed by members of the Technical Program Committee. All accepted and presented papers will be published in the online conference proceedings (SHS Web Conference). Selected papers will published in either scopus-indexed journals or proceedings (with additional fee).

For paper submission instructions and template please go to:
www.ices2018.uui.ac.id

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ICES 2018 Conference: The International Cooperation on Education about Standardization 2018 Conference

Eastparc Hotel

Yogyakarta, Indonesia, July 3-5, 2018

Conference website	http://ices2018.uui.ac.id
Submission link	https://easychair.org/conferences/?conf=ices20180
Poster	download
Submission deadline	May 7, 2018

Topics:
[standards education](#)
[standards](#)
[industry](#)
[engineering](#)

ICES 2018 Conference
Joint International Conference
with 5th ACISE
and
World Standard Council Academic Day

"Strengthening Industry and Engineering, Science, and Management Education through Standardization Learning"

The International Cooperation for Education about Standardization (ICES)

is an international collaboration of individuals representing government, industry, academia, national and international standards bodies, and consortia that is dedicated to promoting education about standardization (including training for current and future standards professionals), improving its quality and attractiveness for all stakeholders, and stimulating dialogue and research. The collaboration benefits from the varying experience, processes, models and attention

- First deadline for paper submission: 15 February 2018
- First notification of acceptance paper: 15 March 2018
- Author First Registration: 6 April 2018
- Second deadline for paper submission: 7 May 2018
- Second notification of acceptance paper: 15 May 2018
- Deadline for camera ready: 1 June 2018
- Payment deadline: 15 June 2018
- Conference due: 3-4-5 July 2018

Committees

Program Committee

- Dradjad Irianto (Institut Teknologi Bandung, Indonesia)
- I Ketut Suter (Universitas Udayana, Indonesia)
- Nurjanah (Institut Pertanian Bogor, Indonesia)
- Moses L. Singgih (Institut Teknologi Surabaya, Indonesia)
- Indra Surjati (Universitas Trisakti, Indonesia)
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- Knut Blind (Technische Universität Berlin, Germany)
- Steve Elliot (Purdue University, USA)
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**International Cooperation for Education about Standardization 2018 (ICES 2018)
Conference Joint International Conference with 5th ACISE (Annual Conference on
Industrial and System Engineering) and World Standard Cooperation Academic Day**

Yogyakarta, Indonesia, July 3-5, 2018

B. Purwanggono and D. Hatta Fudholi (Eds.)

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Rahmat Nurcahyo, Nurmala Sari, Muhammad Habiburrahman and Ellia Kristiningrum

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Analysis of ISO 9001:2015 certification readiness of JP-Graha product of Jasaraharja Putera using gap analysis 01005

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Suheryanto, Zainal Fanani and Dewi Jayanti

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Application of LEAP model on long-term electricity demand forecasting in Indonesia, period 2010-2025

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Abstract. Electricity demand forecasting is an important part in energy management especially in electricity planning. Indonesia is a large country with a pattern of electricity consumption which continues to increase, therefore need to forecasting electricity demand in order to avoid unbalance demand and supply or deficit energy. LEAP (Long-range Energy Alternative Planning System) as a tool energy model and Indonesia as a case study. Basically, electricity demand is influenced by population, economy and electricity intensity. The purpose of this study is to provide understanding and application of electricity demand forecasting by using LEAP. The base year is 2010 and end year projection is 2025. The scenarios of simulated model consist of two scenarios. They are Business as Usual (BAU) and Government policy scenario. Results of both scenarios indicate that end year electricity demand forecasting in Indonesia increased more than two fold compared to base year.

Keywords: electricity, demand forecasting, LEAP, scenario, Indonesia.

1 Introduction

Energy has an important role in human life since ancient times. Animals were used to plow rice fields, firewood for cooking and the use of wind for sailing is proof that energy is important in supporting human life [1]. Energy sources, in terms of usage, consist of primary energy and secondary energy. Primary energy is the energy given by nature directly without processing. While secondary energy is the primary energy that has further process. Petroleum, natural gas and coal are forms of primary energy. Electricity is one form of secondary energy. Based on the type of fuel, electricity is the most widely used energy after petroleum [2]. In addition, electricity is easily to transmitted through transmission and distribution line, easy to use and a lot of devices on the world need electricity as power source.

Indonesia is the fourth most populous nation in the world. The archipelago approximately 17,508 islands located between latitude 6° North and 11° South and longitude 95° East and 141° East [3]. As reported in the 2010 census conducted by Statistics

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Quaternary quality a medium quality that connects macro quality with micro quality

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Abstract. To construct the outlook on great quality, the concept of quality can be divided into two aspects, micro quality and macro quality at present. However, the definition of micro quality and its contents are not related organically with the conception of macro quality and its contents. So an intermediate variable between micro quality and macro quality is needed to link them together, and this intermediate variable is named as medium quality. This paper introduces the connotation of medium quality that includes the concept of quaternary quality, namely zero quality, unary quality, binary quality and ternary quality, and explains the progressive logical relationships of these four qualities. Micro quality and macro quality are cohered by medium quality organically, and thus formulates the scientific outlook on great quality.

1 Introduction

Nowadays many countries attach great importance to the quality of economic development, which is defined as development quality in this paper. Therefore, one of the most important goals for China to advance along the path of scientific development is the pursuit of development quality. Development quality, which consists of core factors including reputation, market rules, market competitiveness and brand, is the degree for economic development to meet the requirements of the whole society and sustainable development. Development quality, also known as macro quality, is one of the hottest topics in quality academia in recent years^[1]. Product quality, which includes hardware product quality, software product quality, processed material quality, service quality and project quality, is the traditional research field in academia. Relative to development quality, product quality is also called micro quality. The concept of quality is divided into micro and macro aspects, and thus formulates the outlook on great quality^[2]. According to the research paradigm, micro quality and macro quality shall have a logical relationship, but now this relationship is ambiguous. Quality practitioners and academia still focus on the concept of product quality, and the definition of product quality mainly based on the International Organization for Standardization (ISO), that is, "Degree to which a set of inherent characteristics fulfils requirements." This definition can be interpreted as the degree that product characteristics conform to standards and meet the requirements of customers^[3]. The formation of the outlook on great quality must be based on the combination of micro quality and macro

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Three activities to promote the development of standard professionals

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Abstract. I was involved in three projects to educate standard professionals in 2017. The first was conducted for first through third-year university students as a part of standardization education in collaboration with several universities in the west Tokyo area, and many students participated. In the second, the Japan Standards Association began a system for registering standard professionals, and prepared and implemented a training system for acquiring registration qualifications. In the third, Yamaguchi University used government funds to create education materials for instructors for standardization education. These three projects are aimed at solving the problems found in past standard professionals' education. I will report the details of these three projects as a case example of standard professionals' development activities in Japan.

1 Introduction

Efforts to educate and train standardization-related professionals have a long history, but Japan only started undertaking such efforts at a policy level in 2004. In that year, the Koizumi Cabinet formulated a set of guidelines titled the “Big-Boned Policy” (honebuto no hōshin), which highlighted the “strategic acquisition of international standards.” In the same year, the government released the “Plan for Promoting Intellectual Property,” which underscored the importance of bolstering strategic efforts related to international standardization.

In tandem with these policy developments, METI released in June 2004 the “Action Plan for Bolstering the Base for International Standardization Practices” and, in 2006, the “Strategic Goals for International Standardization.” These guidelines stipulated two key goals: (1) Submit twice as many proposals for international standards than in the passing year, and (2) be the “core country” (the country that holds an advantageous position in the formulation of a given international standard) in as many standards proposals as Western nations. The guidelines also outlined a concrete measure for achieving these goals: “training standards experts who are internationally fluent.” Tasked with examining specific strategies for how to implement this measure, the Japanese Industrial Standards Committee (JISC) established a special committee on training and education. On July 16, 2008, the committee then released its report, which became the first report in Japan specializing in

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The urgency of testing standard for elderly's monitoring systems in Indonesia

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Abstract - Due to several aspects, such as safety, applicability, and reliability of the elderly monitoring systems, it is urgently need a testing standard for this system. Commonly, the user, especially caregivers or nurse, do not know exactly that procedure. In order to educate both, consumer and producer, preventing problems which may arise among them, and guarantee that instrument is operate as well as stated on the instruction manual, which conform to a certain testing standard which introduced by legal institution (SNI or ISO), establishment a testing (physical and/or written) for this device, especially in Indonesia, is urgently needed.

Keywords: testing standard, monitoring systems

1. Introduction

In table 1 belows, USA have elderly people about 15.2% from their population, but for Japan, the number of Japanese people with ages 65 years or older nearly quadrupled in the last forty years, to 33 million in 2014, accounting for 26.3 % of Japan's population.

Table 1. Percentage elderly population in several country [1]

NO	COUNTRY	ELDERLY.S	YEAR	NOTE
1.	JAPAN	33.9 Million	2017	26.3 %
2.	SWEDEN	1.97 Million	2017	19.8 %
3.	UK	11.8 Million	2016	17.8 %
4.	USA	49.2 Million	2016	15.2 %
5.	INDONESIA	21.5 Million	2017	9.43%

Based on statistical data which released by Bureau of Communication and Society Care Ministry of Health, the population of the elderly in Indonesia are more than 9% from total population[1], especially in 3 province, ie Yogyakarta, Middle Java and East Java. It means, according to the definition, Indonesia already belong to ageing country [more than 8 %]. It has to a consequence for the government for introducing more reliable health services.

As stated by Prof. Dr. dr Siti Setiati, SpPD-KGer, Pergemi (Persatuan Gerontologi Medik Indonesia), in paper “Masalah Kesehatan yang Harus diwaspadai oleh Lansia”[2], that there are about 23 % global problem health which belong to Elderly [Lansia] health. It