PERSATUAN INSINYUR INDONESIA

Persatuan Insinyur Indonesia
The Institution of Engineers Indonesia

WE-AFEO 36

Indonesia Country Report

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Singapore, 12-14 November 2018

AGENDA

I Introduction

II WE-Indonesia Currently

III Activity Road Map

IV Plan To Strengthen

V Discussion

Indonesia – The Facts

PERSATUAN INSINYUR INDONESIA

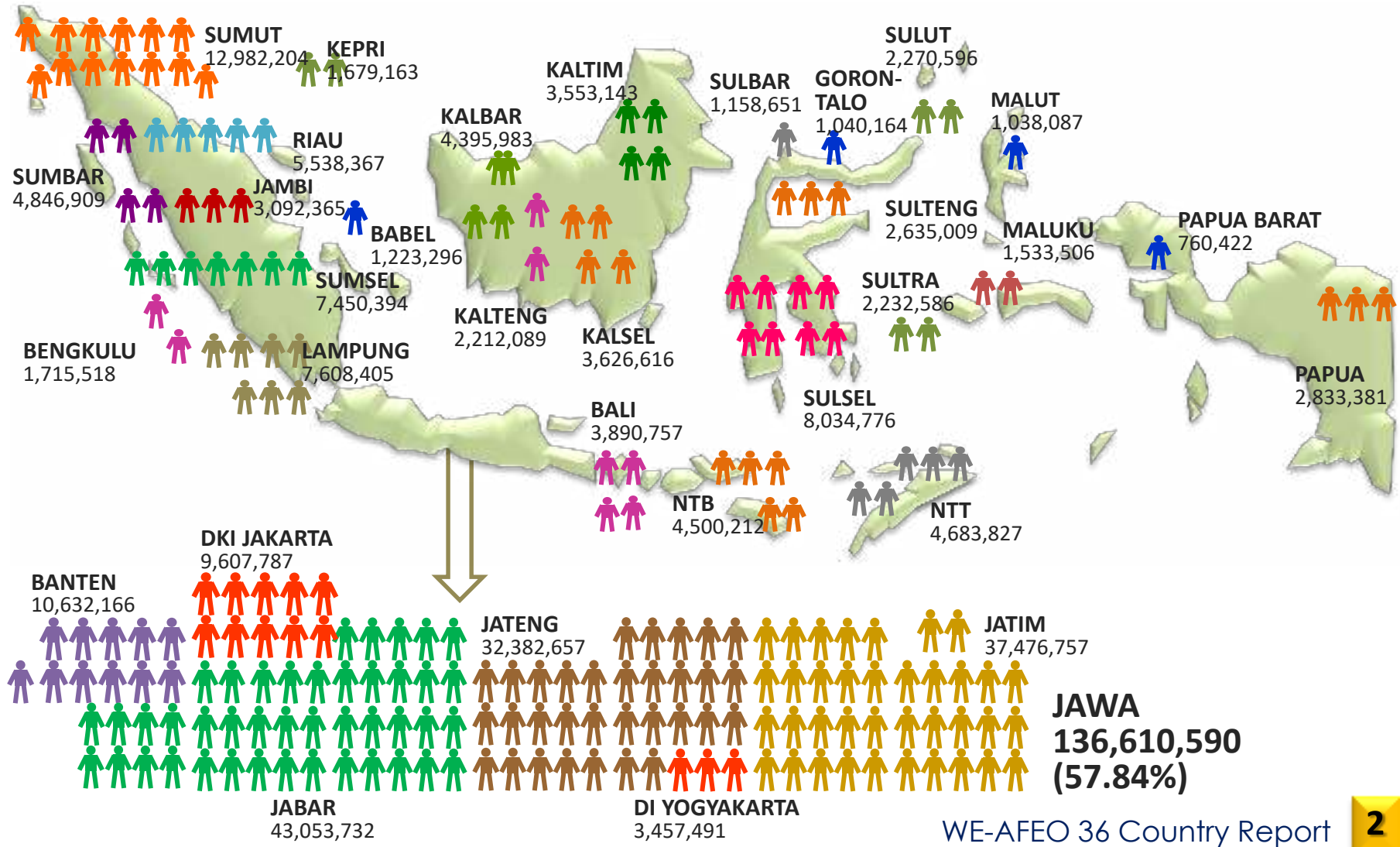
- **Total land area: 1.89 mio km2.**
- **Approximately 17,000 islands.**
- **32 Provinces.**
- **Enrouten by Ring of Fire** (line of volcanoes and earthquake).
- **Population: 237 mio** (predicted 263 mio in 2025).
- **Total number of Engineers: 603,000.**
- **2017 PII members: 27,788 with women engineer: 8,366 (30%).**

Indonesia – The Facts

PERSATUAN INSINYUR INDONESIA

SUMATRA 50,631,031: 21,30%

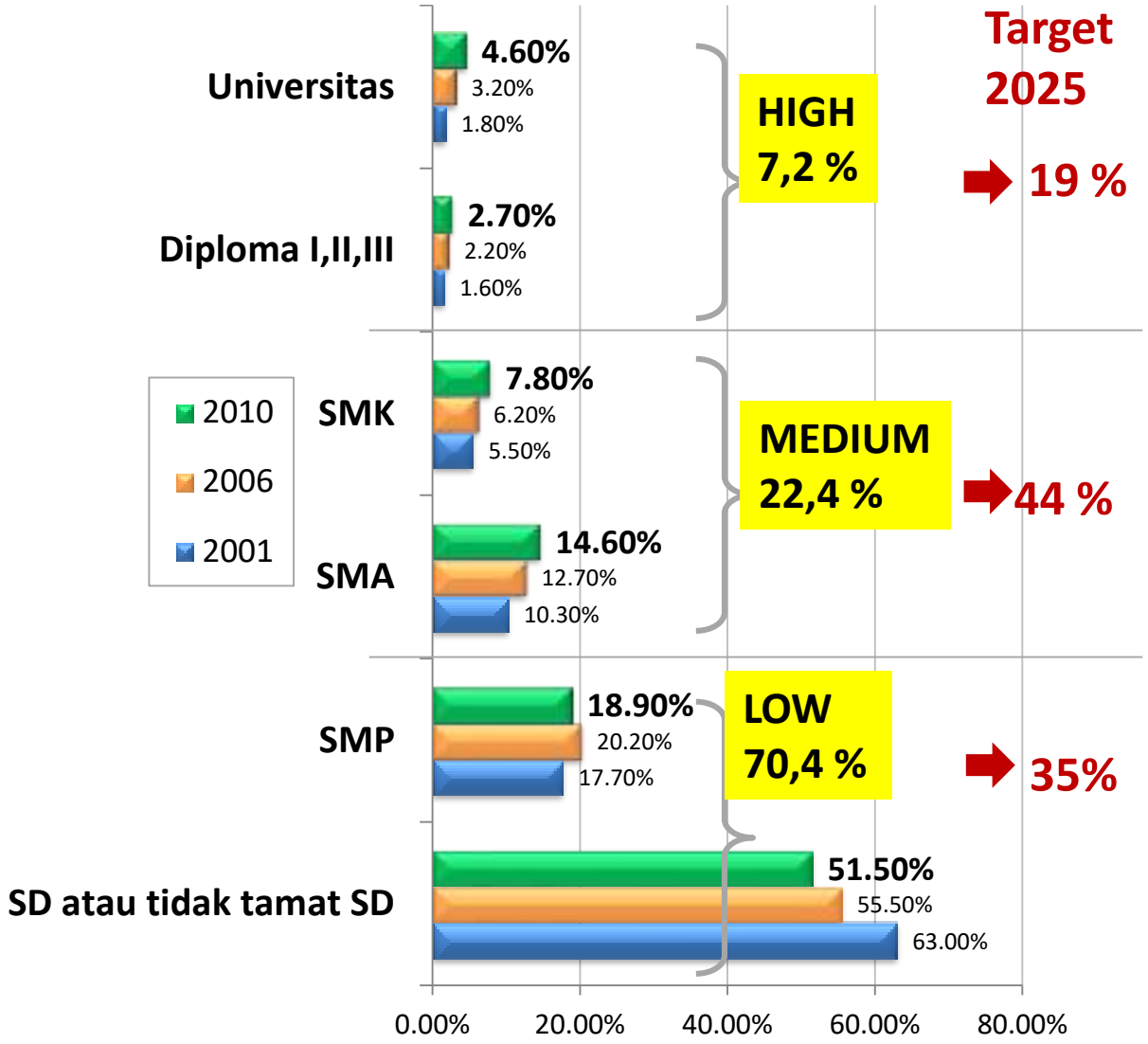
Total Population: 237,641,326 ppl.



JAWA 136,610,590 (57.84%)

Human Resources Education

Setting a better composition for the human resources education level



164%

From 7,2% to be 19% in year 2025

96%

From 22,4% to be 44% in year 2025

PERSATUAN INSINYUR INDONESIA

Engineering Education Studies Program

PERSATUAN INSINYUR INDONESIA

Indonesia currently has 374 Engineering Education Studies Program

1. SUMATERA	
Science	49
Agriculture	33
Engineering	96
Others	321
Total	499
SAE/Total	19 %

3. KALIMANTAN	
Science	21
Agriculture	16
Engineering	32
Others	122
Total	191
SAE/Total	16 %

4. SULAWESI	
Science	28
Agriculture	27
Engineering	59
Others	229
Total	343
SAE/Total	17 %

6. PAPUA - MALUT	
Science	18
Agriculture	17
Engineering	30
Others	110
Total	175
SAE/Total	17 %

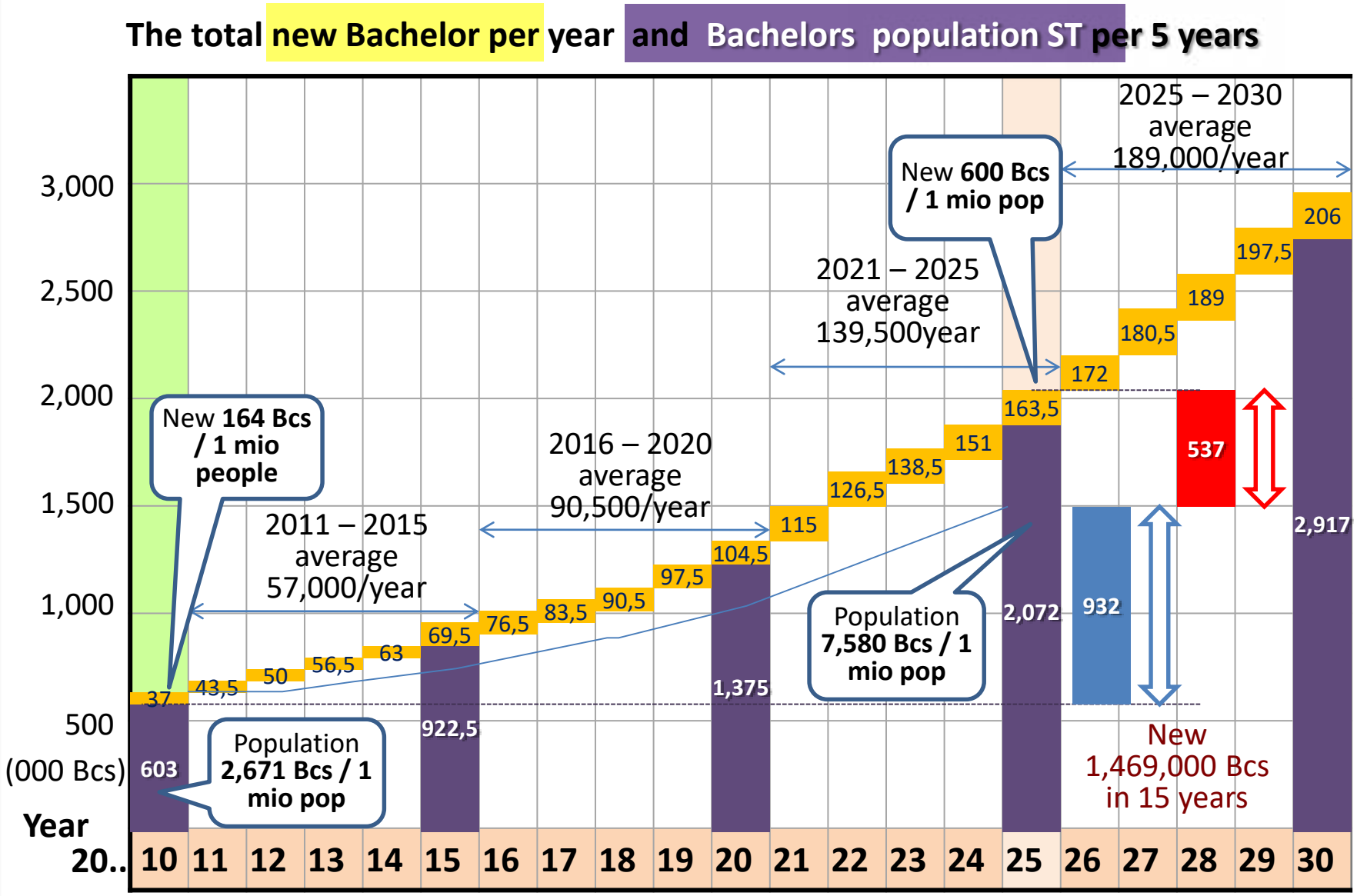
ACCREDITATION BODY	TOTAL	ACCREDITATION BODY	TOTAL
AUN-QA	118	IFT	2
ABEST21	27	IChemE	1
ASIIN	21	IMIA	1
ABET	19	APACPH	1
IABEE	11	EDAS	1
AACSB	9	PAASCU	1
JABEE	4	AASBI	1
ICAAB	2	ACCA	3
RSC	2	TedQual	3
IFLA	1	ASIC	8
IMarEST	1	IUFost	1
SWSI	1	GRAND TOTAL	241

2. JAWA	
Science	38
Agriculture	33
Engineering	125
Others	518
Total	714
SAE/Total	17 %

5. BALI - NT	
Science	17
Agriculture	11
Engineering	32
Others	140
Total	200
SAE/Total	16 %

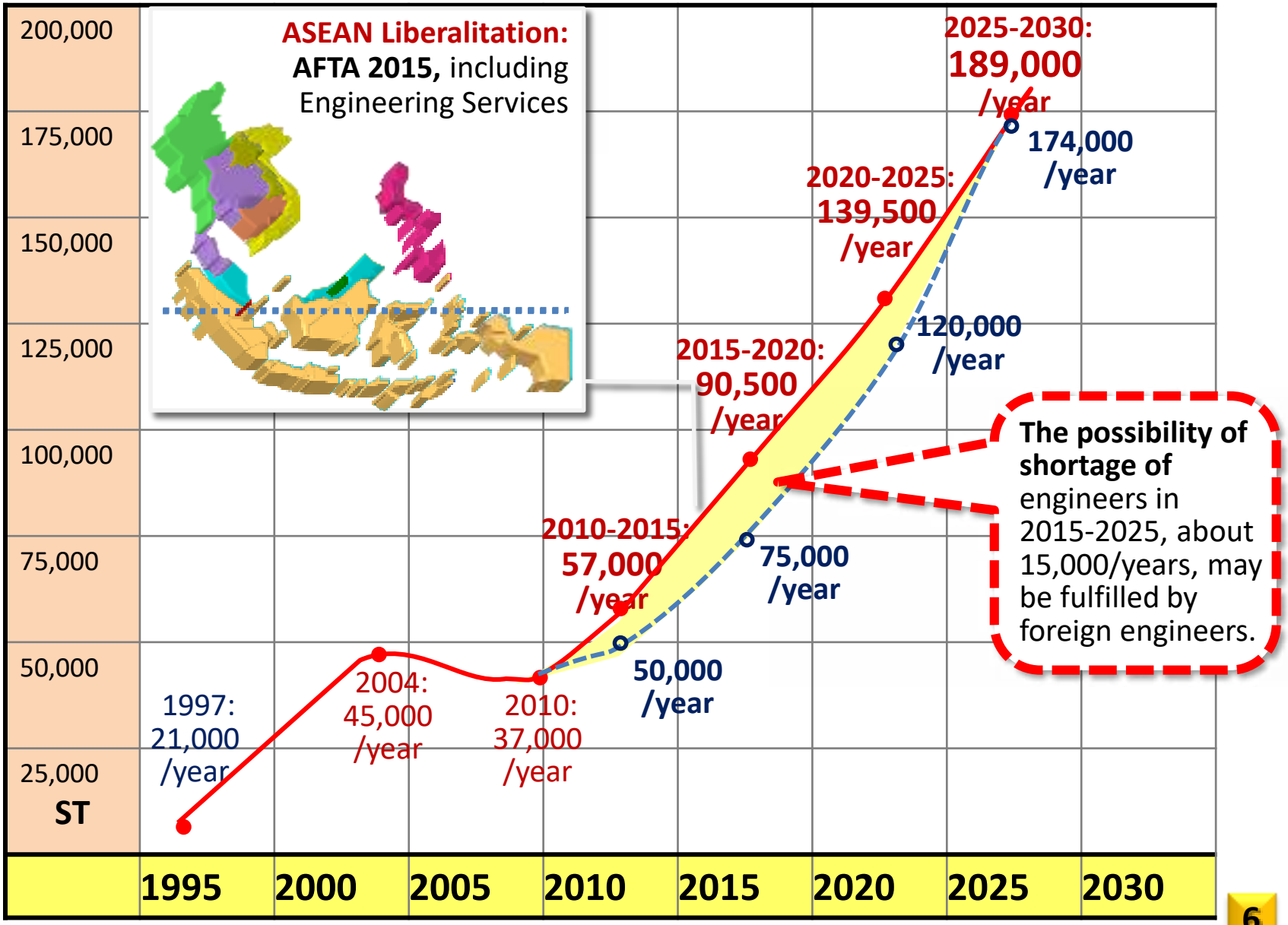
Engineering Bachelors Supply Planning

PERSATUAN INSINYUR INDONESIA



Add 57.6% compare to existing growth

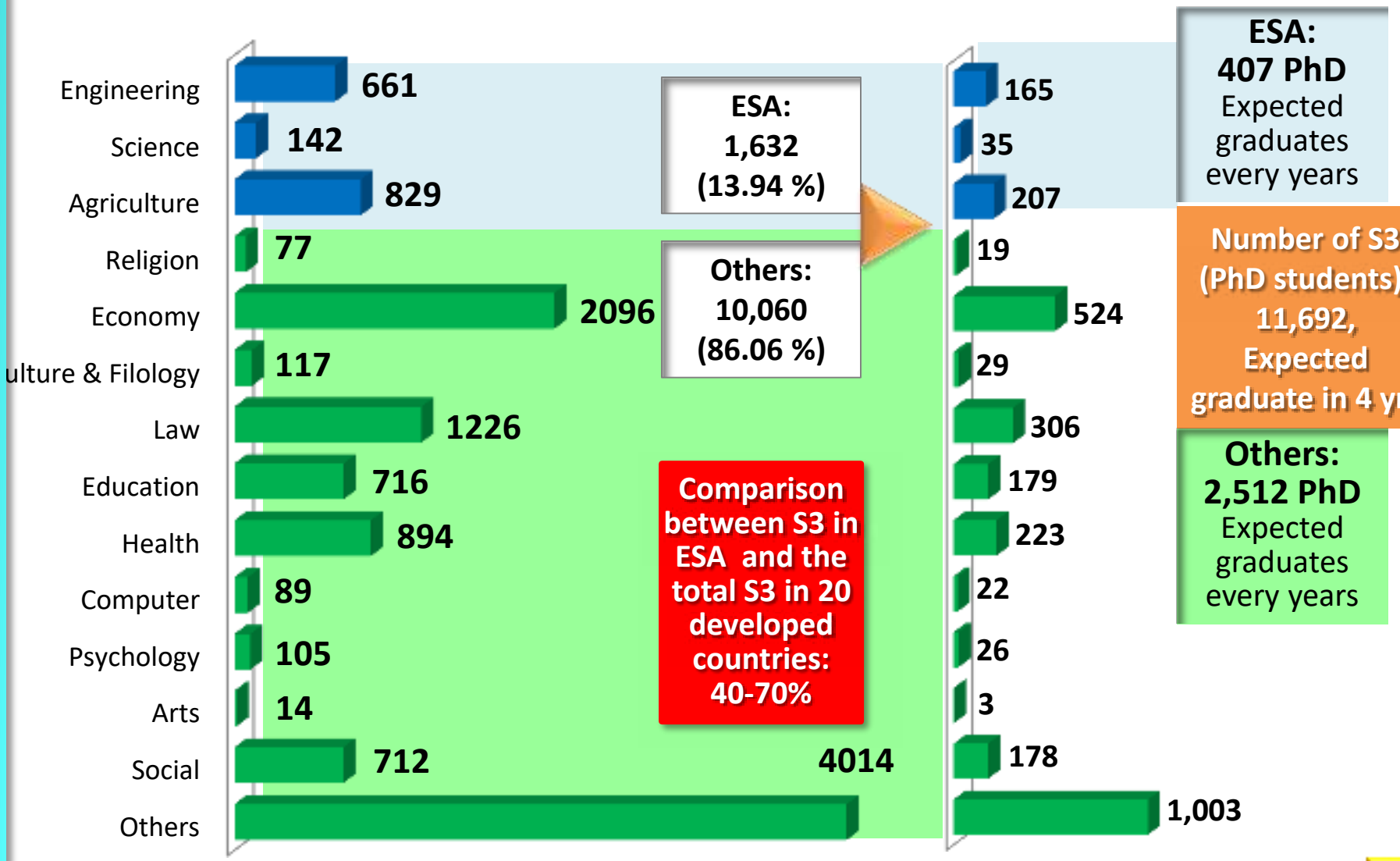
Prediction Gap: Demand and Supply



PhD in INDONESIA

Total PhD (2011): 23,000

Projection new PhD: 2,919/year

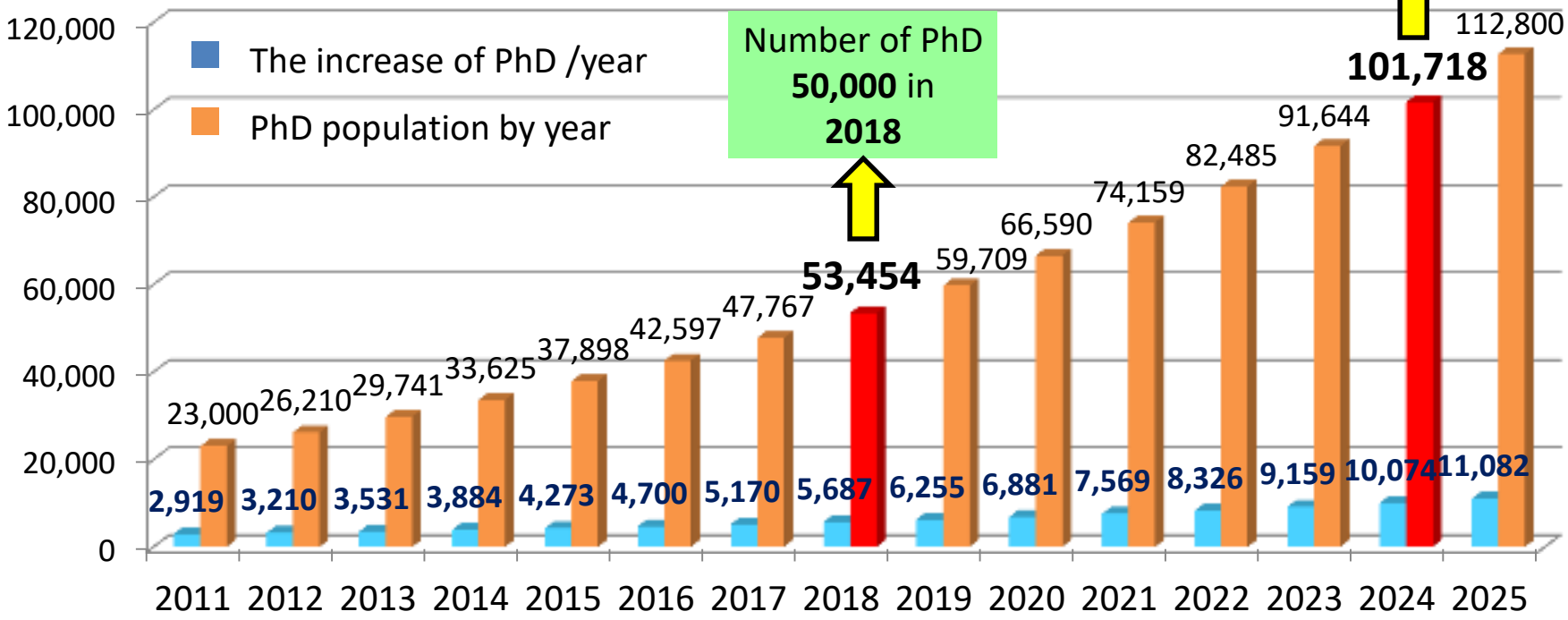


PhD Degree Composition

PERSATUAN INSINYUR INDONESIA

PhD Increasing 10%/year Scenario

PERSATUAN INSINYUR INDONESIA



COUNTRY	Numbers PhD Thn 2011	POPULATION	PhD /1 mio population
INDONESIA	23,000	237,000,000	98
INDIA	1,690,000	1,198,000,000	1,410
GERMANY	328,000	82,200,000	3,990
FRANCE	320,000	62,300,000	5,136
JAPAN	819,000	127,200,000	6,438
USA	3,100,000	314,700,000	9,850

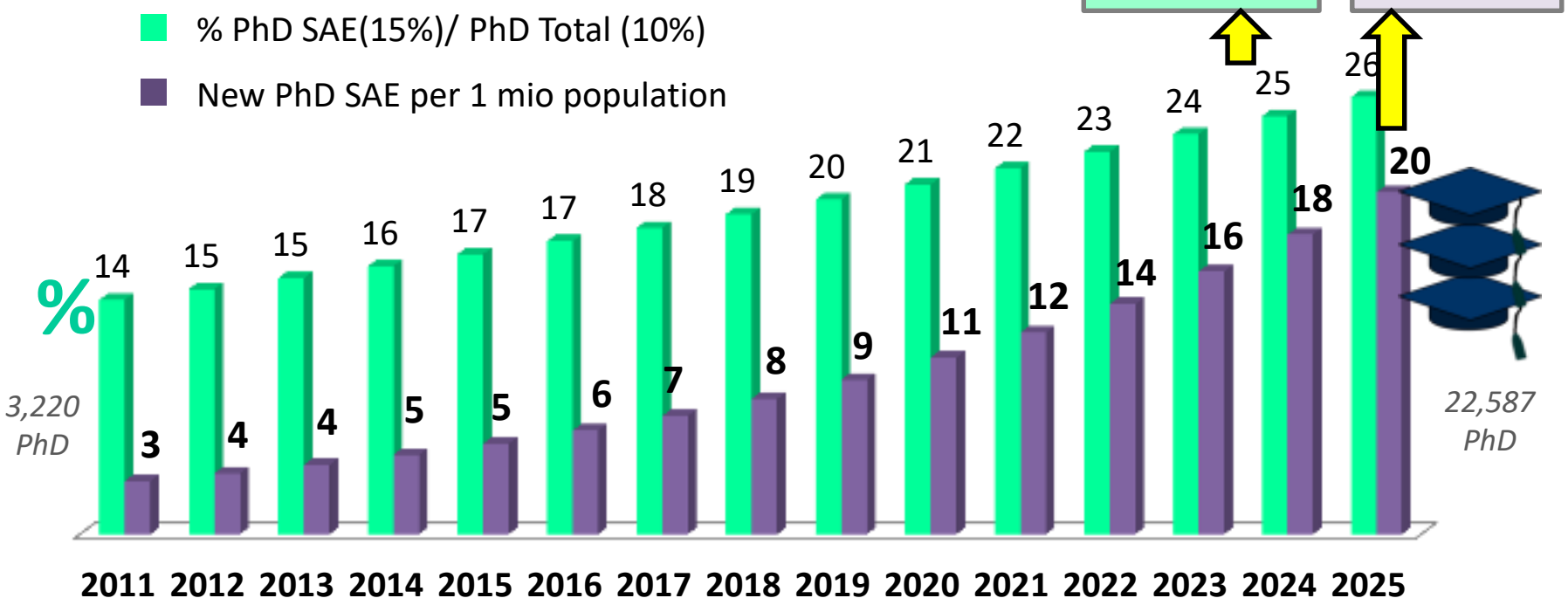
- With the raise of 10%, in **2024, expected number of PhD becomes** 500 /1 mio population

PhD: Increasing 15%/year Scenario

PERSATUAN INSINYUR INDONESIA

The growth of comparison of PhD in **ESA/ Total: 25%** in **2024**

The addition of **20** PhD in ESA /1 mio of pop /year



COUNTRY (2008)	Comparison **PhD SAE/ PhD Total**	Addition of **PhD SAE/ 1mio pop**
Indonesia	25%	2
Australia	39 %	95
USA	36 %	65
South Korea	33 %	60
Japan	40 %	45
China	60 %	28

With the raise of 15%, in **2024, expected, number of PhD becomes** 11 /1 mio of population

International/Regional Accredited/Assessed Program

ACCREDITATION BODY	TOTAL	ACCREDITATION BODY	TOTAL
AUN-QA	118	IFT	2
ABEST21	27	IChemE	1
ASIIN	21	IMIA	1
ABET	19	APACPH	1
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RSC	2	TedQual	3
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SWST	1	GRAND TOTAL	241

PII (Persatuan Insinyur Indonesia)

PERSATUAN INSINYUR INDONESIA

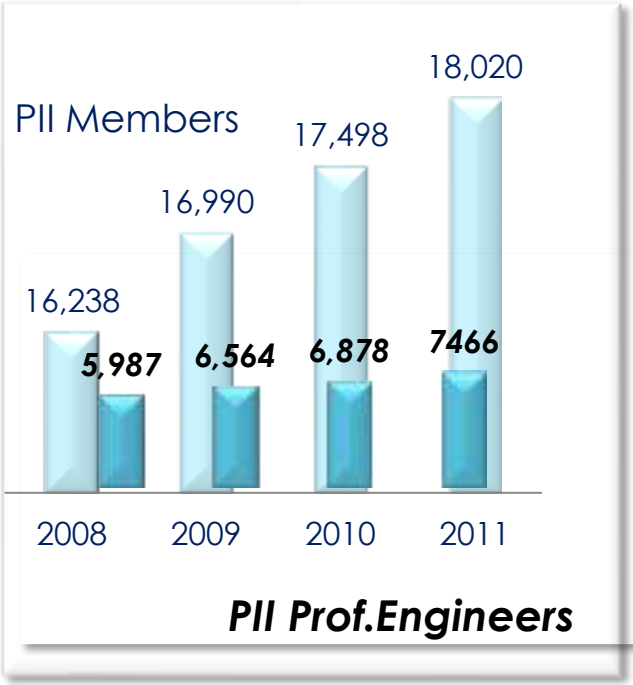
Institution of Engineers Indonesia

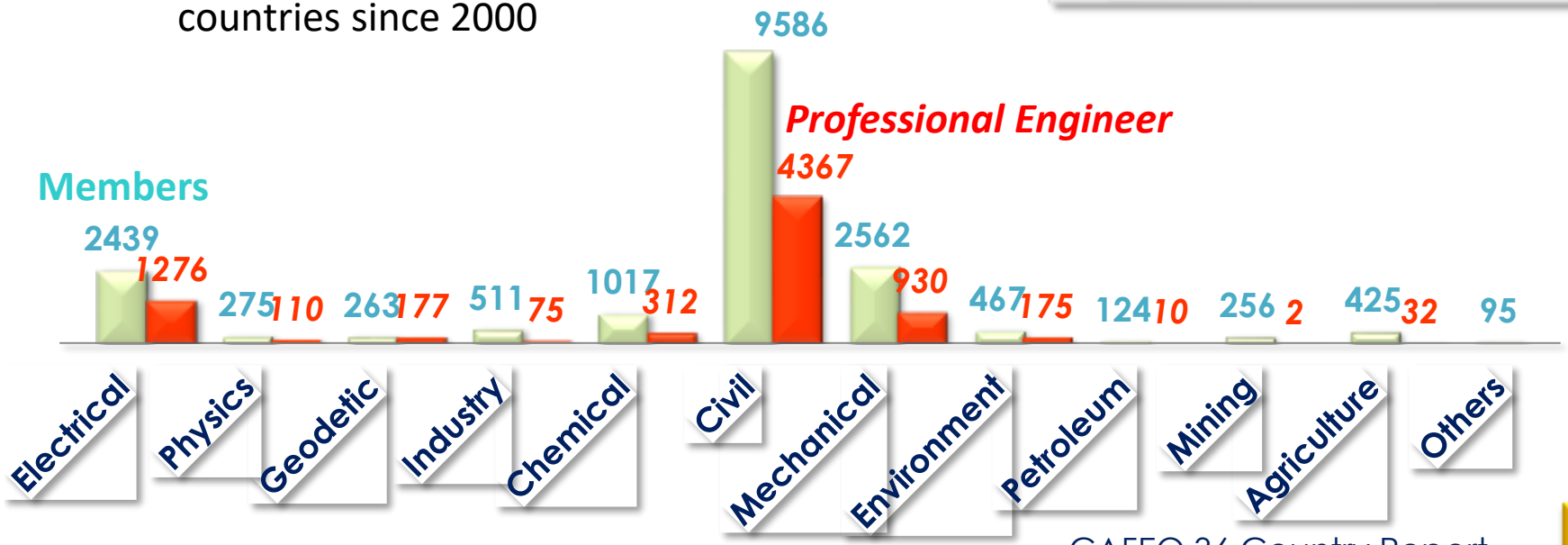
Is Indonesian engineers association established in Bandung in 1952

During 60 years of activities, PII – along with other parties, established some engineering education institutions, such as:

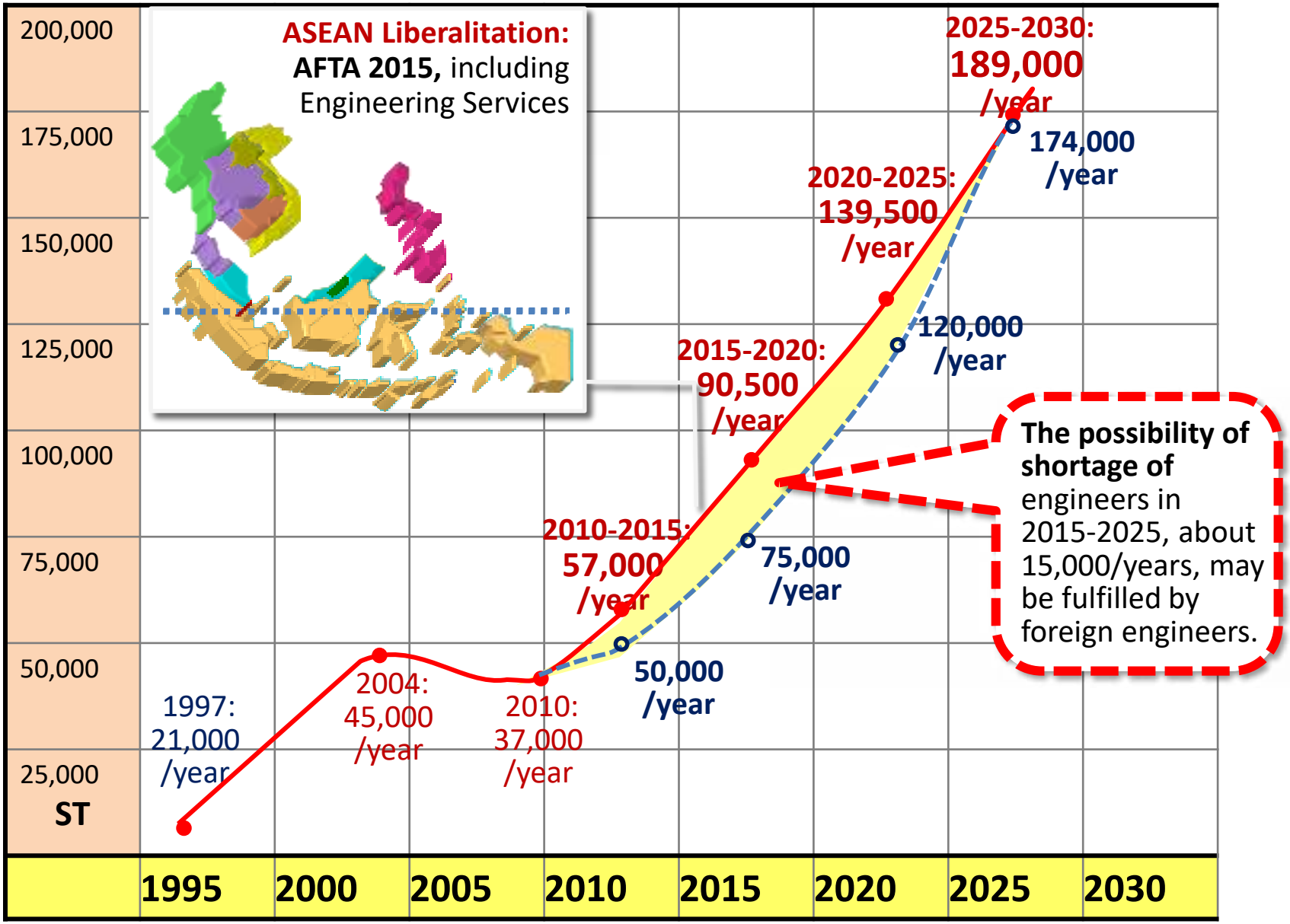
- ITB, Institution of Technology, Bandung (1958),
- Engineering Faculty of University of Indonesia,
- ITS (Institut Teknologi Sepuluh November) and
- ITI (Institut Teknologi Indonesia)

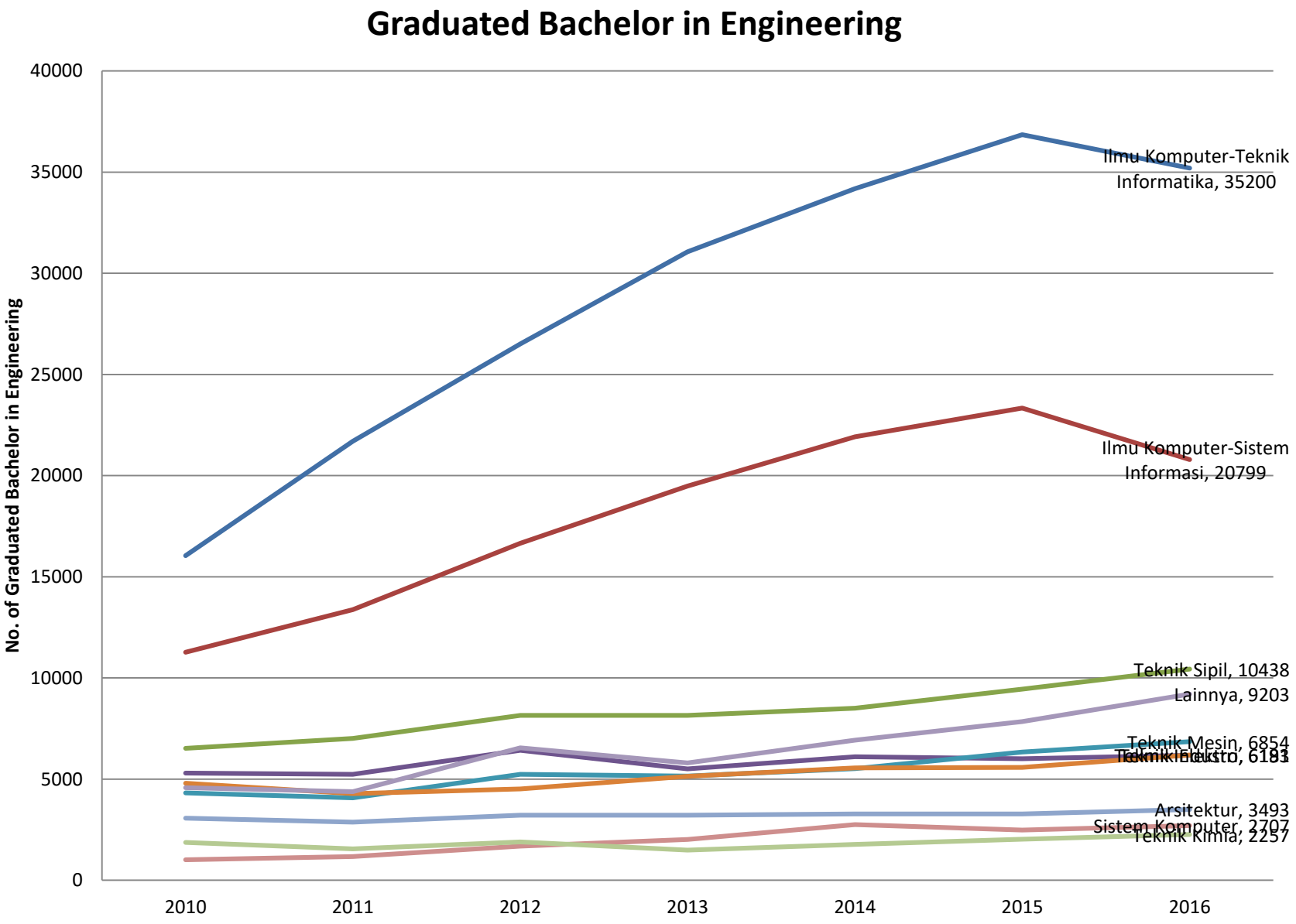
PII's Profesional Engineers have been recognized (equivalent) in ASEAN and APEC countries since 2000





Prediction Gap: Demand and Supply

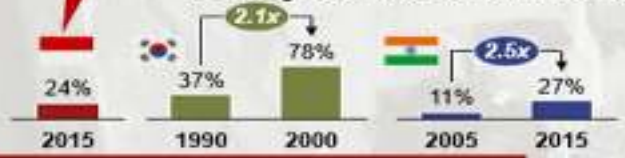



Graduated Bachelor in Engineering
No. of Graduated Bachelor in Engineering
40000
35000
30000
25000
20000
15000
10000
5000
0
2010
2011
2012
2013
2014
2015
2016
Ilmu Komputer-Teknik Informatika, 35200
Ilmu Komputer-Sistem Informasi, 20799
Teknik Sipil, 10438
Lainnya, 9203
Teknik Mesin, 6854
Teknik Elektro, 6193
Arsitektur, 3493
Sistem Komputer, 2707
Teknik Kimia, 2257

10 Key National Priorities for "Making Indonesia 4.0" (4/5)

Indonesia is facing **talent development challenges**

Tertiary school enrollment



7 Upgrade human capital

- Reform education curriculums by adopting **STEAM** (Science, Technology, Engineering, Art and Math) **education**
- Upgrade **vocational schools**
- Leverage **foreign talents**

8 Establish innovation ecosystem

Indonesia **lacks** strong gov./private **R&D/innovation centers**

Source: A.T. Kearney

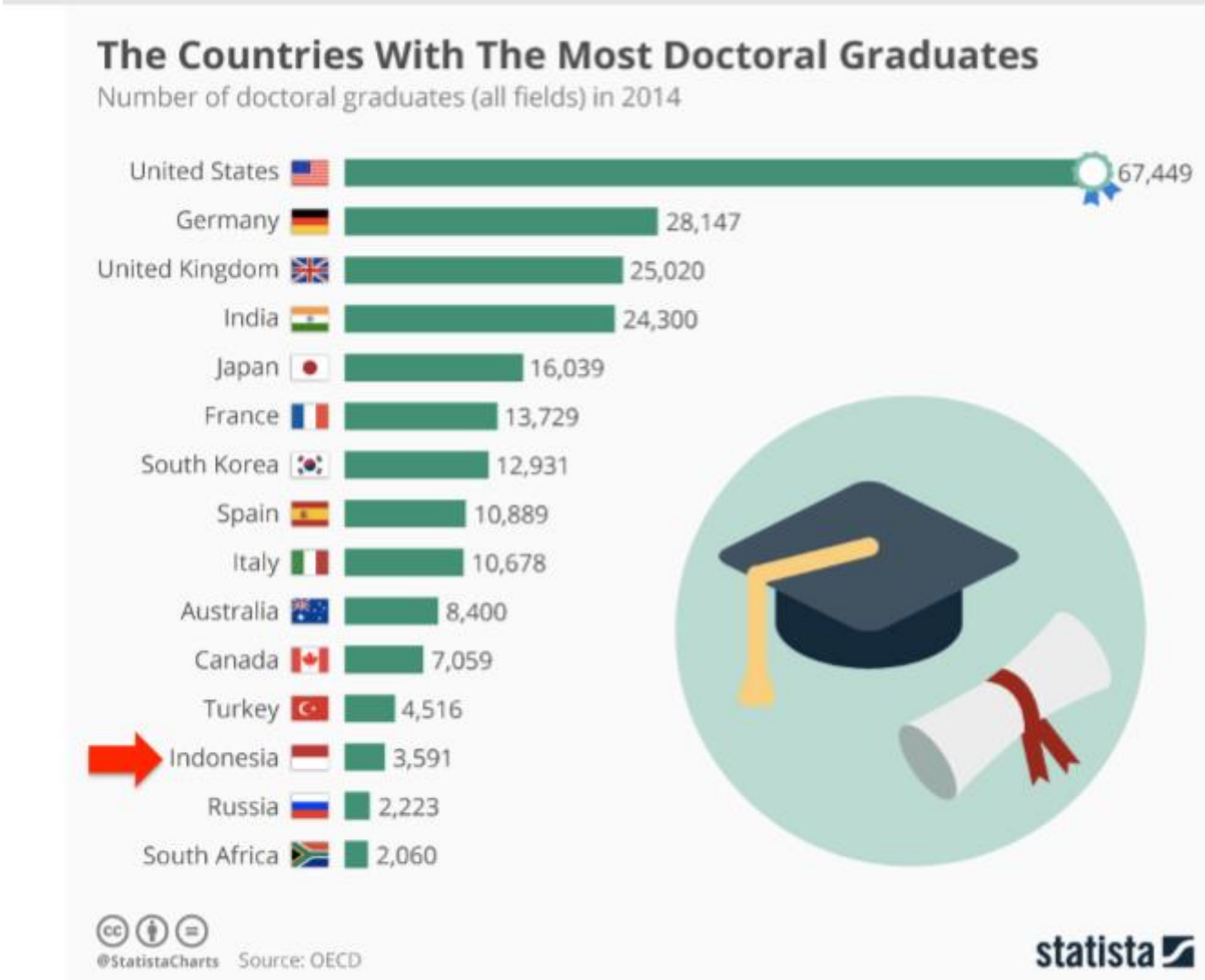
Table A.3. Share of employment by one-digit sector and risk category of automation (per cent)

High-risk sector	Cambodia	Indonesia	Philippines	Thailand	Viet Nam	ASEAN-5
Total	**56.8**	**56.2**	**48.9**	**44.2**	**70.4**	**56.2**
A. Agriculture, forestry and fishery	45.9	50.0	59.4	32.9	83.3	56.6
B. Mining and quarrying	43.5	14.2	6.2	37.0	31.7	17.0
C. Manufacturing	75.3	55.7	46.2	65.4	74.4	61.6
D. Electricity, gas, steam and air-conditioners	6.2	51.7	45.7	37.1	50.4	45.3
E. Water supply; sewerage, waste management and remediation activities	77.1	57.0	48.4	36.8	46.5	47.4
F. Construction	88.6	80.8	86.2	70.0	40.6	70.8
G. Wholesale and retail trade; repair of motor vehicles and motorcycles	80.5	91.1	57.5	50.7	84.1	77.5
H. Transport and storage	17.2	23.3	9.5	17.8	17.9	18.2
I. Hotels and restaurants	73.3	77.9	67.8	84.8	93.0	80.7
J. Information and communications	53.7	53.8	35.1	34.2	32.2	43.0
K. Financial and insurance activities	48.2	71.6	61.2	40.3	45.6	59.2
L. Real estate activities	0.0	40.0	15.6	38.6	40.9	32.5
M. Professional, scientific and technical activities	19.2	42.8	32.6	34.1	27.4	35.1
N. Administrative and support service activities	43.7	35.7	48.5	52.2	39.8	47.0
O. Public administration and defense; compulsory social security	32.9	61.5	35.8	29.7	35.4	43.3
P. Education and training	3.6	9.2	8.4	10.0	7.6	8.7
Q. Human health and social work activities	10.8	23.4	16.1	17.8	13.1	18.7
R. Arts, entertainment and recreation	14.8	33.9	29.1	54.4	68.9	42.3
S. Other service activities	15.5	37.0	25.3	38.6	16.9	31.2
T. Activities of households as employers of domestic workers	33.0	25.0	0.2	20.5	9.0	20.3
U. Activities of extraterritorial organizations and bodies	43.4	32.7	19.2	70.0	25.6	42.0
X. Unknown/unclassifiable	n.a.	77.4	n.a.	46.7	49.9	72.2

STEM Study Program per year

Study Program	year							
	2010	2011	2012	2013	2014	2015	2016	2017
Aeronautics	0	0	0	0	0	0	0	0
Aeronautics & Astronotics	2330	2494	2609	2836	3042	3211	3270	3115
Intellingent Agent	0	0	0	0	0	0	0	0
Heavy Machinery	1182	1535	1680	1821	1950	2029	2122	1958
Heavy Machinery and Training Center Dev.	0	0	0	66	147	216	243	236
Intelligent Analysis	0	0	0	0	0	0	0	0
Chemical Analysis	1091	1138	1186	1272	1358	1407	1483	1450
System & Operation Research Analysis	0	0	0	38	54	54	54	36
Architecture	42661	45679	49651	53907	58403	62608	65969	65596
Avionics	92	104	103	152	200	223	236	227
Building Structure	2701	2730	2792	2772	2688	2673	2559	2445
Product Design	0	0	0	0	0	0	13	13
Product Design	0	0	0	30	37	41	41	41
Medical Electronics	21926	23465	25082	26802	27880	29033	29499	28374
Mechatronics	0	0	19	44	70	97	97	97
Electronics	65	65	116	204	265	357	375	305
Electric	0	0	17	35	76	132	161	181
Electronics & Instrumentation	630	713	800	940	1015	1070	1076	1101
Renewable Energy	2644	2783	2769	2740	2837	2946	2923	2940
Physics	409	426	451	465	535	582	590	598
Engineering Physics	2417	2609	2899	3361	3745	3896	4095	4277
Geophysics	1477	1634	1847	2137	2870	3134	3408	3449

Geography and Environmental	5811	6523	7385	8079	10147	11124	11802	11544
Geoinformatics	830	853	949	1003	1034	1077	1127	1120
Geology	456	529	564	634	743	745	750	727
Materials Science	68	68	72	78	80	75	71	77
Materials Science and Engineering	302	305	305	307	315	321	318	305
Computation	130	221	352	885	1045	1011	1108	1236
Computer	7458	8756	10021	11255	12441	13339	13796	12943
Computer - Information System	130650	147628	164261	179328	192605	202517	205481	196085
Computer - Information Engineering	269654	312047	351692	387183	422558	443566	447383	423406
Computer - Networks	0	0	0	0	0	0	2	14
Engineering	0	0	0	4	6	48	74	81
Electrical Engineering	325	344	389	432	478	514	532	547
Geomath Engineering	23	21	19	25	26	26	27	25
Industrial Engineering	35	41	42	49	58	69	77	74
Ocean Engineering	123	120	117	106	108	112	114	131
Chemical Engineering	57	59	65	83	100	115	124	129
Mechanical Engineering	230	281	313	349	406	430	452	466
Civil Engineering	454	570	653	689	749	777	799	823
Defense Industry	0	0	0	0	0	0	15	25
Technology Information	0	0	209	311	311	209	209	209
Power Installation	190	190	212	264	278	258	254	212
Oil & Gas Instrumentation & Electronics	347	398	451	514	578	594	569	385
Meteorology, Climatology & Geophysicist	108	209	409	612	823	922	965	1036
Instrument & Control	60	54	39	30	36	42	41	36
Instrument & Automation Industry	1363	1698	1949	2348	2793	3249	3566	3511
Digital Telecommunication Networks	156	202	248	303	358	416	488	436
Construction	736	967	1235	1586	1840	2136	2459	2223
Information System Security	791	894	1380	1905	2231	2539	2454	2349
Police	0	0	0	0	0	0	0	166
Work Safety & Fire Prevention	129	175	279	430	589	754	797	849
Energy Defence	0	0	15	25	45	41	54	62



Internationally, U.S. Stands in Middle of Pack on Science, Math Scores

Study Program	Profesi	Bachelor	Magister	Doctorate
	0	0	0	0
Aeronautics	0	22120	664	123
Aeronautics & Astronotics	0	0	0	0
Intellingent Agent	0	0	0	0
Heavy Machinery	0	0	0	0
Heavy Machinery and Training Center Dev.	0	0	0	0
Intelligent Analysis	0	0	0	0
System & Operation Research Analysis Chemical Analysis	0	0	236	0
Architecture	0	412602	11599	1492
Electronics & Instrumentation	0	7345	0	0
Renewable Energy	0	0	22582	0
Physics	0	0	0	0
Engineering Physics	0	27299	0	0

Geophysics	0	19218	0	0
Geography and Environmental	0	72415	0	0
Geoinformatics	0	0	0	0
Geology	0	0	5148	0
Materials Science	0	0	0	0
Materials Science and Engineering	0	0	0	589
Computation	0	0	2478	0
Computer	0	5988	0	0
Computer - Information System	0	0	87922	2087
Computer - Information Engineering	0	1418555	0	0
Computer - Networks	0	3057489	0	0
Engineering	0	16	0	0
Electrical Engineering	0	0	0	213
Geomath Engineering	0	0	0	3561
Computation	0	0	2478	0
Computer	0	5988	0	0
Computer - Information System	0	0	87922	2087
Computer - Information Engineering	0	1418555	0	213
Computer - Networks	0	3057489	0	3561
Engineering	0	16	0	192
Electrical Engineering	0	0	0	445
Geomath Engineering	0	0	0	931

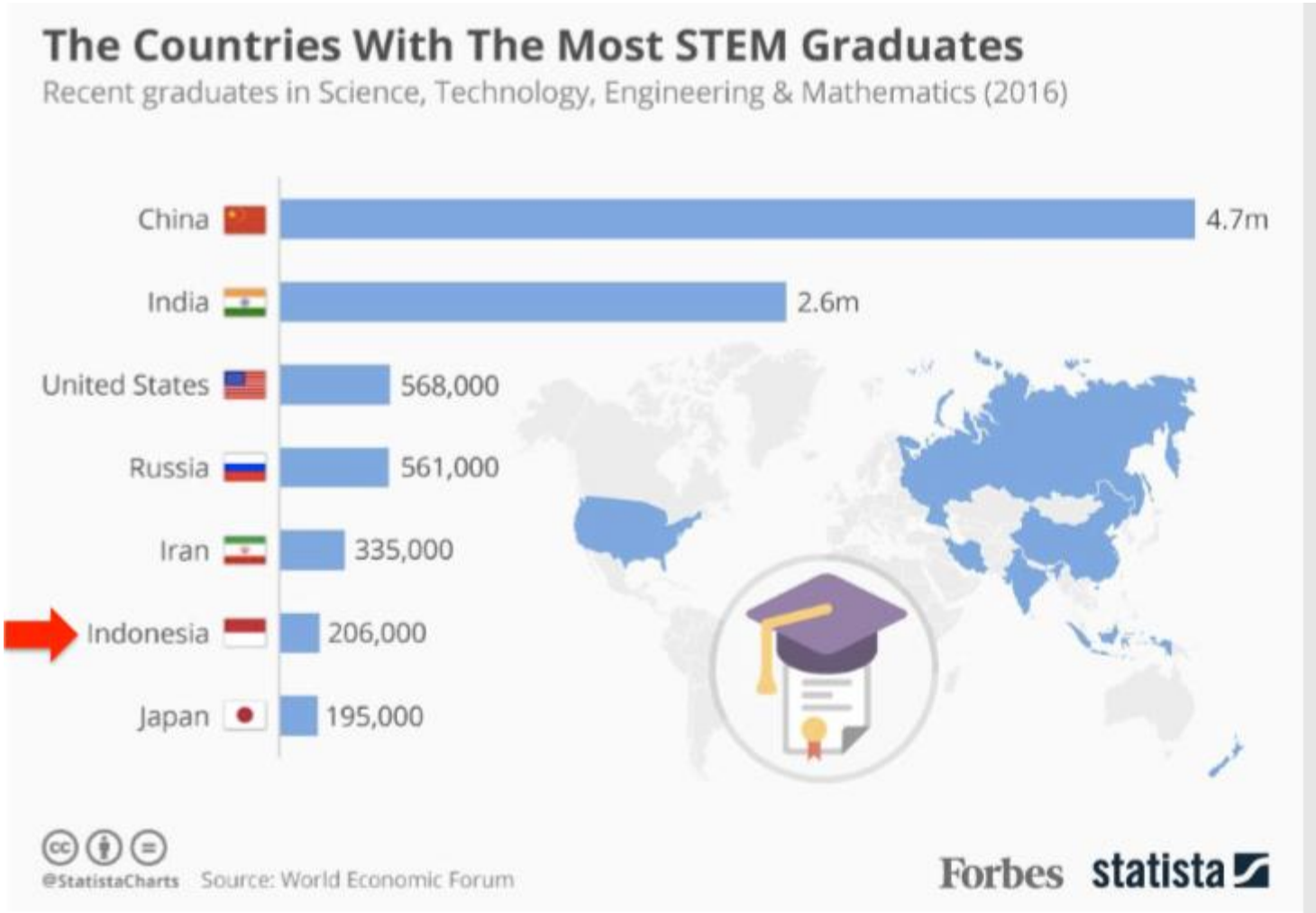

The Countries With The Most STEM Graduates
Recent graduates in Science, Technology, Engineering & Mathematics (2016)
China
4.7m
India
2.6m
United States
568,000
Russia
561,000
Iran
335,000
Indonesia
206,000
Japan
195,000
@StatistaCharts
Source: World Economic Forum
Forbes
statista

Table A.2. Employment by sex and risk of automation (thousand and per cent distribution by risk)

Country and sex	Low	Medium	High	Total	Low	Medium	High	Total
Cambodia	805.4	2 280.4	4 049.5	7 135.4	11.3	32.0	56.8	100.0
Male	451.8	1 380.1	1 904.2	3 736.1	12.1	36.9	51.0	100.0
Female	353.6	900.3	2 145.4	3 399.3	10.4	26.5	63.1	100.0
Indonesia	10 076.8	37 074.7	60 418.0	107 569.4	9.4	34.5	56.2	100.0
Male	5 569.6	24 178.3	37 103.2	66 851.1	8.3	36.2	55.5	100.0
Female	4 507.1	12 896.4	23 314.8	40 718.3	11.1	31.7	57.3	100.0
Philippines	7 042.6	12 580.2	18 798.5	38 421.3	18.3	32.7	48.9	100.0
Male	2 807.2	9 619.6	10 883.8	23 310.6	12.0	41.3	46.7	100.0
Female	4 235.4	2 960.6	7 914.7	15 110.8	28.0	19.6	52.4	100.0
Thailand	5 918.1	15 832.3	17 201.4	38 951.8	15.2	40.6	44.2	100.0
Male	3 134.2	9 545.0	8 588.3	21 267.5	14.7	44.9	40.4	100.0
Female	2 783.9	6 287.3	8 613.0	17 684.3	15.7	35.6	48.7	100.0
Viet Nam	6 120.2	9 278.9	36 681.1	52 080.2	11.8	17.8	70.4	100.0
Male	3 920.0	6 320.5	16 476.2	26 716.8	14.7	23.7	61.7	100.0
Female	2 200.2	2 958.4	20 204.9	25 363.4	8.7	11.7	79.7	100.0
ASEAN-5	29 963.1	77 046.5	137 148.6	244 158.2	12.3	31.6	56.2	100.0
Male	15 882.8	51 043.5	74 955.7	141 882.1	11.2	36.0	52.8	100.0
Female	14 080.2	26 003.0	62 192.8	102 276.1	13.8	25.4	60.8	100.0

Source: International Labour Organisation (2016)

**A study on "ASEAN in Transformation: The Future of Jobs at Risk of Automation"

INDONESIA : ROAD MAP TO PROFESSIONAL ENGINEER

ENGINEER PROFESSION PROGRAM (CHAPTER V & VI - CONSTITUTION NO 12/2012)

Engineering practice competence strengthening

REGISTRATION BY PII

Profession Qualification Levels

Cerificate of competence

Competention Test

ENGINEER degree (Ir)

Profession serficication

Enginner profession prog. (PPI)

3

Past Learning Recognition

B. Eng (Academic degree)

1

Working experience

Engineering Higher Education

Implementer: PII (LSP) and Accredited HKK

Implementer: Higher Education and related ministry and PII

Implementer: Higher Education

Equalization Program

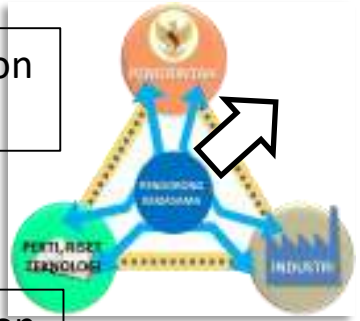
Working experience in engineering

2

NON B. Eng

Higher Ecuation in Science

Triple Helix Execution



Increase the number of enginner

LEARNING OUTCOMES PROFESSIONAL ENGINEER PROGRAM

- Able to perform planning by utilizing the resources, and evaluate the process comprehensively by utilizing science and technology.
- Able to solve engineering problems through mono disciplinary or multidisciplinary approach.
- Able to perform engineering research and make decisions. In the accordance to professional ethics and standards of strategic and accountable engineering.

PROFESSIONAL ENGINEER CURRICULUM

- Curriculum Studies Program of Professional Engineers is a learning system:
- Focuses on the implementation of the engineering profession
- The curriculum was prepared by the College by:

List of engineer obligations under Article 11/2014

1. ABET criteria on learning outcomes
2. Favor on the national interest
3. Insights in global engineering
4. Professionalism in engineering
5. Understanding of the Safety, Security, Health and Environmental Safety
6. Code of conduct and professional ethics
7. Mastery of planning and design practice
8. Understanding the resource utilization
9. Thought to conduct a comprehensive evaluation,
10. Multidisciplinary approach to problem solving
11. Posses the engineering researchers
12. Mastery in decision making process

WE-PII and UNESO-ICOSOF-FIEAP Program

Strengthening the role of woman engineers as human resource in certification process of engineering education to build regional network in in Asia Pacific region

The initial mapping of WE- national and international human resources.

Benchmarking FISEAP and AE-FEO

HR WE-PII working according to the HR profession WE-PII and owns professional certificate

Consolidation of PSPPI Program at 40 PTN / PTS. Mapping the potential WE-PII in PSPPI program International community

- **Collaboration with Industrial technology mastery**
- **Capacity building**

Increased Role of WE-PII in its profession

- Managerial and technical guidance according to the Washington Accord

ACCREDITATION And Standarization PATNER

- Preparation of Accreditation for Engineering Major
- Application and standardization of WA in engineer profession education

Development of Research and Application center

- Facilitate the development of WE-PII profession in all branches and regions of Indonesia with International community

UNESCO-ECOSOC-INTERNATIONAL PARTNERSHIP PROGRAM

No	PROGRAM	ACTIVITY
1	**The initial mapping of WE- national and international human resources.**	
	1.1. Benchmarking Program FISEAP and AE-FEO	Leading one working group. The midterm meeting host
	1.2. Big data issues: Human Resources Mapping of WE-PII through Higher Education & Research Mininstry and Industry, Government, Corporate and other institutions	Support the Washington Accord suitability process
	1.3. Mapping of WE-PII Human Resorces to obtain professional certificate at home country and abroad	

UNESCO-ECOSOC-INTERNATIONAL PARTNERSHIP PROGRAM

No	PROGRAM	ACTIVITY
2	**Consolidation of PSPPI Program at 40 PTN / PTS.**	
	2.1. Socialization of Benchmarking Program FISEAP and AE-FEO with 40 PTN / PTS PSPPI mandate holders result	Leads one working group. The midterm meeting host
	2.2. Mapping the potential of WE-PII in PSPPI program with International Community	Support the Washington Accord suitability process
	2.3. Collaboration with Industry and government institutions, corporations to improve technological mastery	
	2.4. Increasing WE-PPI capacity according to mapping	

UNESCO-ECOSOC-INTERNATIONAL PARTNERSHIP PROGRAM

No	PROGRAM	ACTIVITY
3	**Increased Role of WE-PII in their profession**	
	3.1. Socialization of Engineer Profession Education criteria according to Washington Accord	Support the Washington Accord suitability process
	3.2. Managerial and technical guidance according to the Washington Accord	Support the Washington Accord suitability process

UNESCO-ECOSOC-INTERNATIONAL PARTNERSHIP PROGRAM

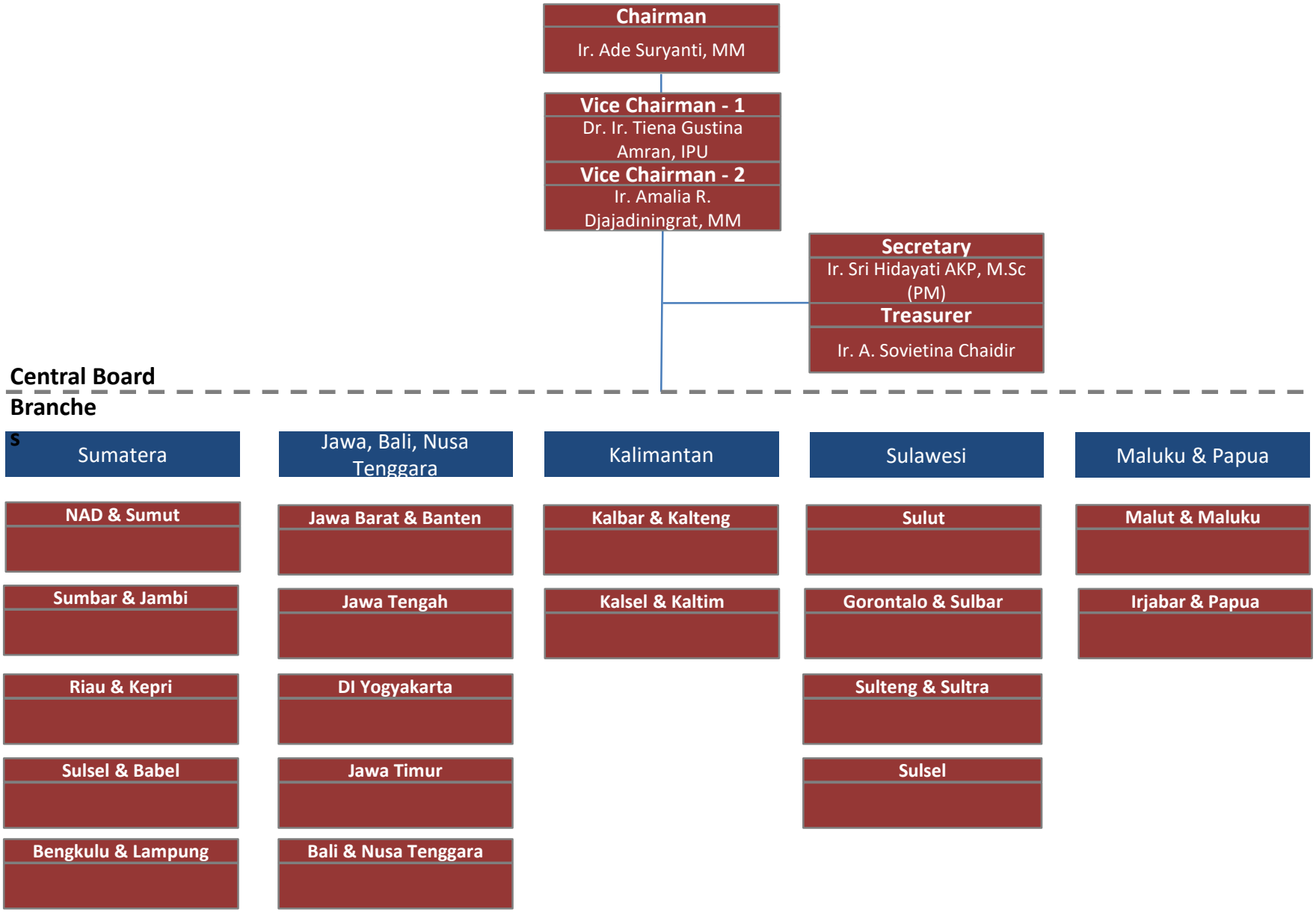
No	PROGRAM	ACTIVITY
4.	ACCREDITATION PARTNER	
	4.1.WE– PII ,UNESCO, ECOSOF DAN FEIAP, Become Accreditation partners for Engineering Education	Support the Washington Accord suitability process
	4.2. Preparation of Accreditation for Engineering Major	Support the Washington Accord suitability process
	4.3.Implementation and standardization of WA in Professional engineering education	

UNESCO-ECOSOC-INTERNATIONAL PARTNERSHIP PROGRAM

No	PROGRAM	ACTIVITY
5.	CENTER DEVELOPMENT OF EDUCATIONAL PROFESSIONAL ENGINEERING	
	5.1. Development facilitation of WE-PII Profession in all branches and regions of Indonesia with UNESCO, ECOSOF	

PERSATUAN INSINYUR INDONESIA

Women Engineer Forum/FIW - PII



Women Engineer Forum/FIW - PII

PERSATUAN INSINYUR INDONESIA

- Established in 2015.
- Strengthened by Engineering Act No. 11 year 2014.
- **VISION:**

  "To build a large network connecting women engineers, to embrace and deliver the results of living on purpose based on courage and joy."

- **MISSION:**
  - To encourage women engineers to remain in the engineering practice.
  - To support the professional development for women engineers.
  - To profile inspirational women engineers of exemplary model inspiring next generation.

❑ OBJECTIVES:

- ❖ To exchange viewpoints and information about engineering and technology.
- ❖ To promote greater contribution from women engineers in industry.
- ❖ To offer professional advice, consultation and assistance to women engineers.
- ❖ To serve as a venue for Indonesian women engineers to share opinions and experiences in their profession with counterparts from other countries.
- ❖ To organize engineering-related activities which contribute to society and benefit the general public.

Women Engineer Forum/FIW - PII

- **PROGRAM**:
  - Coordinates with other women engineer organizations in Indonesia and abroad.
  - Provides career assistance and support to women engineers.
  - Distributes information on engineering through various media channels.
  - Organizes academic and professional meetings and seminars.

The Institution of Engineers Indonesia
Persatuan Insinyur Indonesia

REPORT
Indonesia Women Engineering

PERSATUAN INSINYUR Indonesia
Forum Insinyur Wanita

F) will be run by a current PII
more attention to attract

organization and involved in
existing program.

- Specifically, WEF will do dissemination on this initiative within the PII organization (including branches and district).

Forum Insinyur Wanita (FIW) - SWE

The Proposed Type of Activities:

1. Conferences (Volunteer- MMCSR)
2. R&D (Volunteer- MMCSR
3. EDUCATION STEM Volunteer- MMCSR

3.1.Local Activities

4. Promotion publishing
5. Societies Communities (problem solving for communities)
6. Technical Careers (industrial visit, technology competition, job fair)
7. Keseketariatan (FIW – fixed expenses – proposal kiat.or.id IWAPI

Engineering Student Visit to GMF – Learning from Airplane Accident and Sea Safety .

Engineering Student Visit to GMF – Learning from Airplane Accident and Sea Safety .

Tempat Terbatas!!

INFORMASI KEGIATAN
SUB ACARA KONVENSI NASIONAL BKTI PII KE-3 2018

KUNJUNGAN PABRIK / INDUSTRI

Melihat Langsung Aplikasi Ilmu Teknik Industri

Interaksi Mahasiswa dengan Praktisi dan Alumni

Update Perkembangan Kekinian Bidang Industri

OBYEK KUNJUNGAN (Pilihan Per Minat) :

1. PT Toyota Motor Manufacturing Indonesia - Karawang 18 Oktober 2018


IPC
PORT OF TANJUNG PRIOK
PLANNING & CONTROL DIVISION
Belawan
Makassar
Tanjung


FACTORY VISIT

Societies Communities

COMPARATIVE STUDY TO DEVELOP NATIONAL ECONOMY.

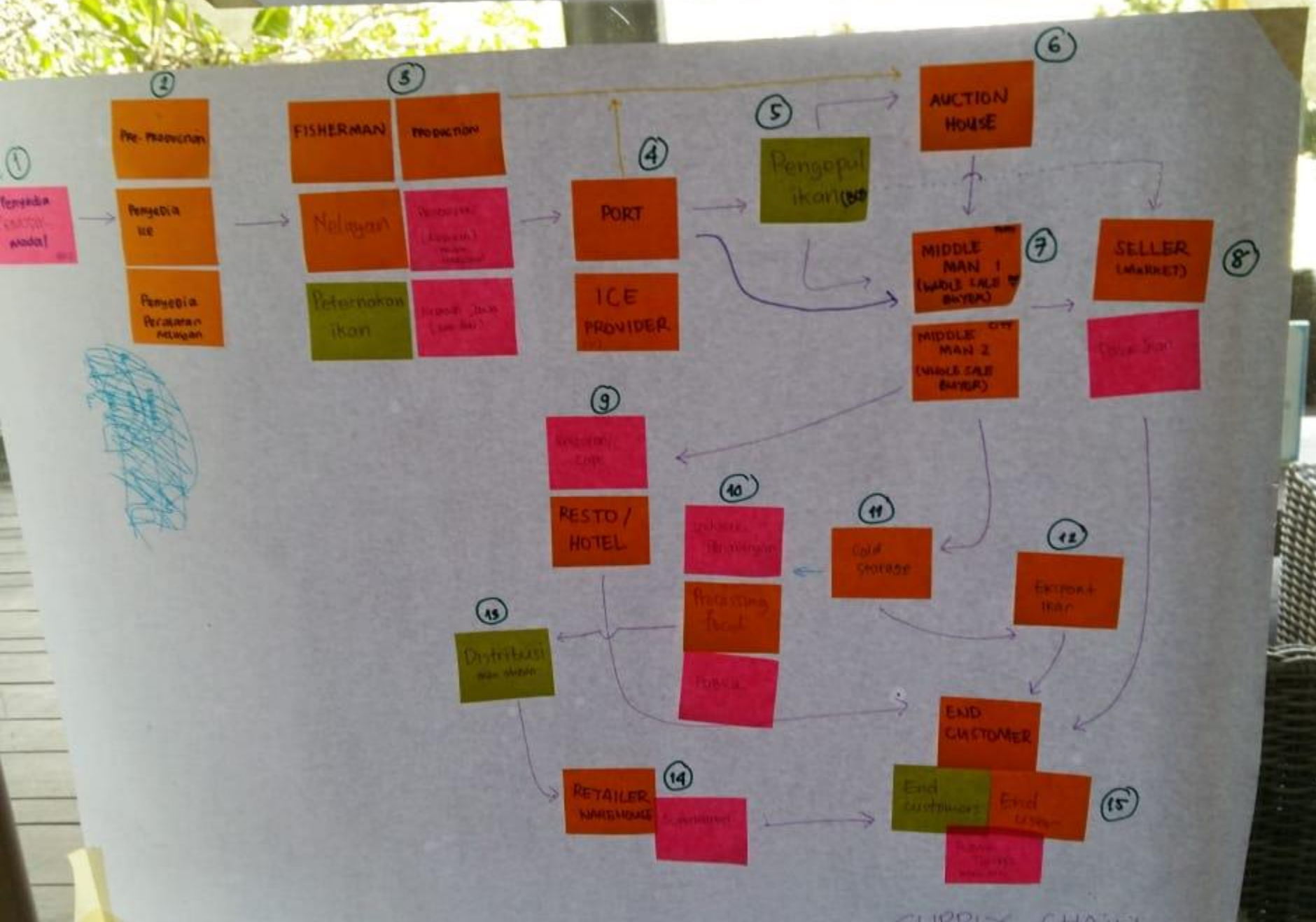
VISIT TO OPHRAN VISIT AT MALANG TO WHICH SUCCEED IN BUILDING THEIR OWN ECONOMY.

BUILDING COOPERATION WITH INTERNATIONAL.

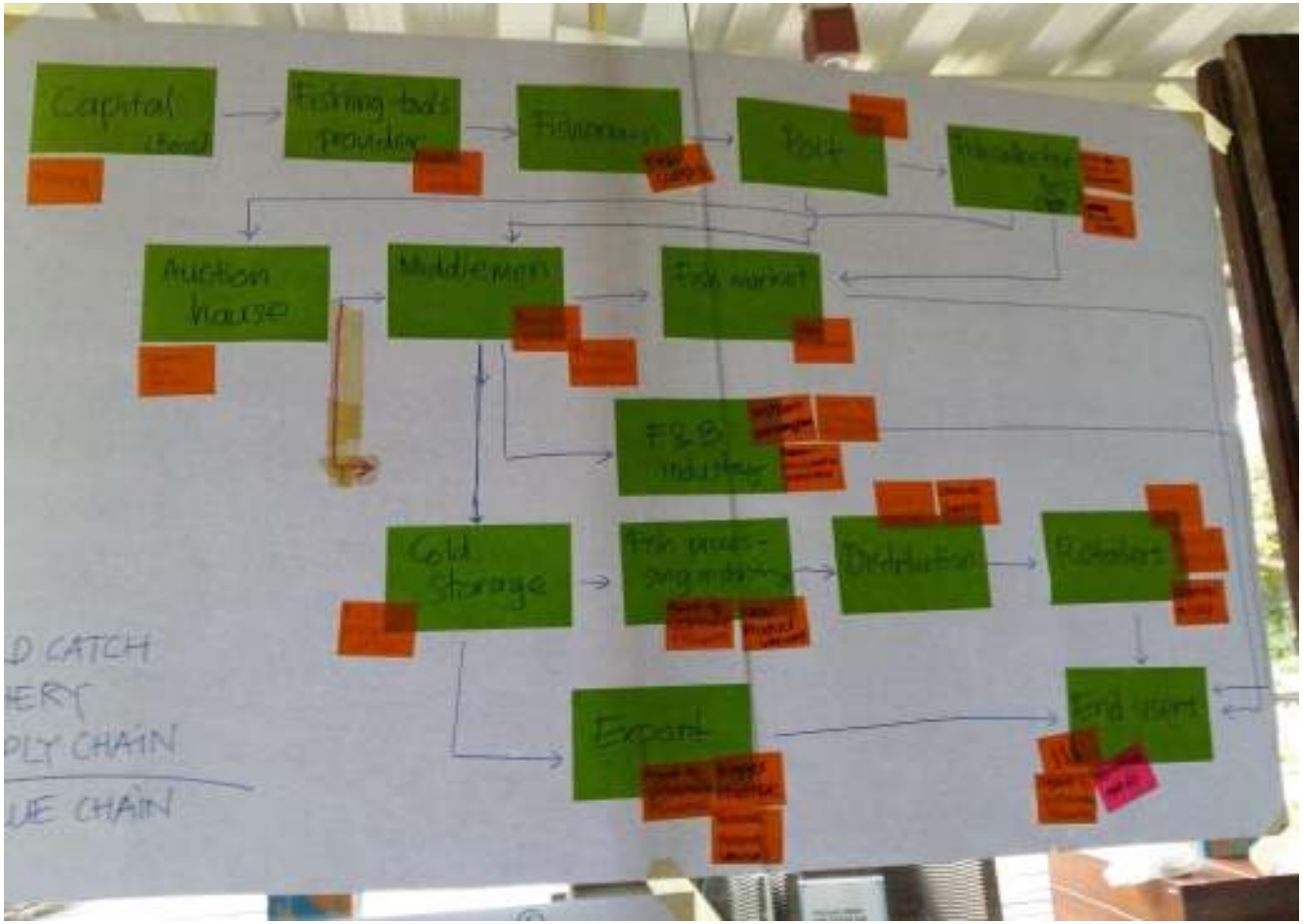
HARMONY GROWN CADRES.


EPRENEUR PROGRAM
anak usia 3 – 15 tahun
: 4 jam
n 2 rute eksplorasi :
A) RAINBOW EXPLORATION
Agriculture : Hydroponic & Mushroom
Happy farm ville: Rabbit, Quail, Menthog
Lovely fish
Fish Brotherhood
Choco Factory
Art Gallery
Broadcasting "M-Radio"
Catch me
B) STAR EXPLORATION
Agriculture : Hydroponic & Mushroom
Happy farm ville: Chicken, Goat, Pigeon
Lucky fish
Restaurant
Gold Mining
Broadcasting "M-Radio"
Catch me
.000 → 165.000/PAX
cilities
Batch 1 : 10.00
Batch 2 : 11.00
Batch 4 : 13.00
Batch 5 : 14.00
Untuk anak usia 6 – 15 tahun
Durasi : 2 - 3 jam
Dengan 3 tema petualangan :
CHIPMUNK & PIRATE Treasury Hunt
Ayo menjadi pemburu harta karun.... !! Kita bantu chipmunk untuk merebut kembali harta karun yang telah dicuri oleh para bajak laut
WHITE PRINCESS & THE DRAGON Adventure
Ayo menjadi Ksatria pemberani & menyelamatkan white princess yang diculik oleh naga yang
TARZAN the RESCUE MISSION
Call to the rangers.... Ayo kita membantu Tarzan untuk menyelamatkan hewan-hewan dan para pemburu liar
Facilities :
-Adventure book
- Photos 4R
-1 x meals
-Pin
Adventure time
Batch 1 : 11.00
Batch 2 : 13.00
INVESTASI PROGRAM ADVENTURE :
200.000 → 165.000/PAX
OPTIONAL WAHANA
Berlaku
Untuk
Cash Voucher
Hindiana zone

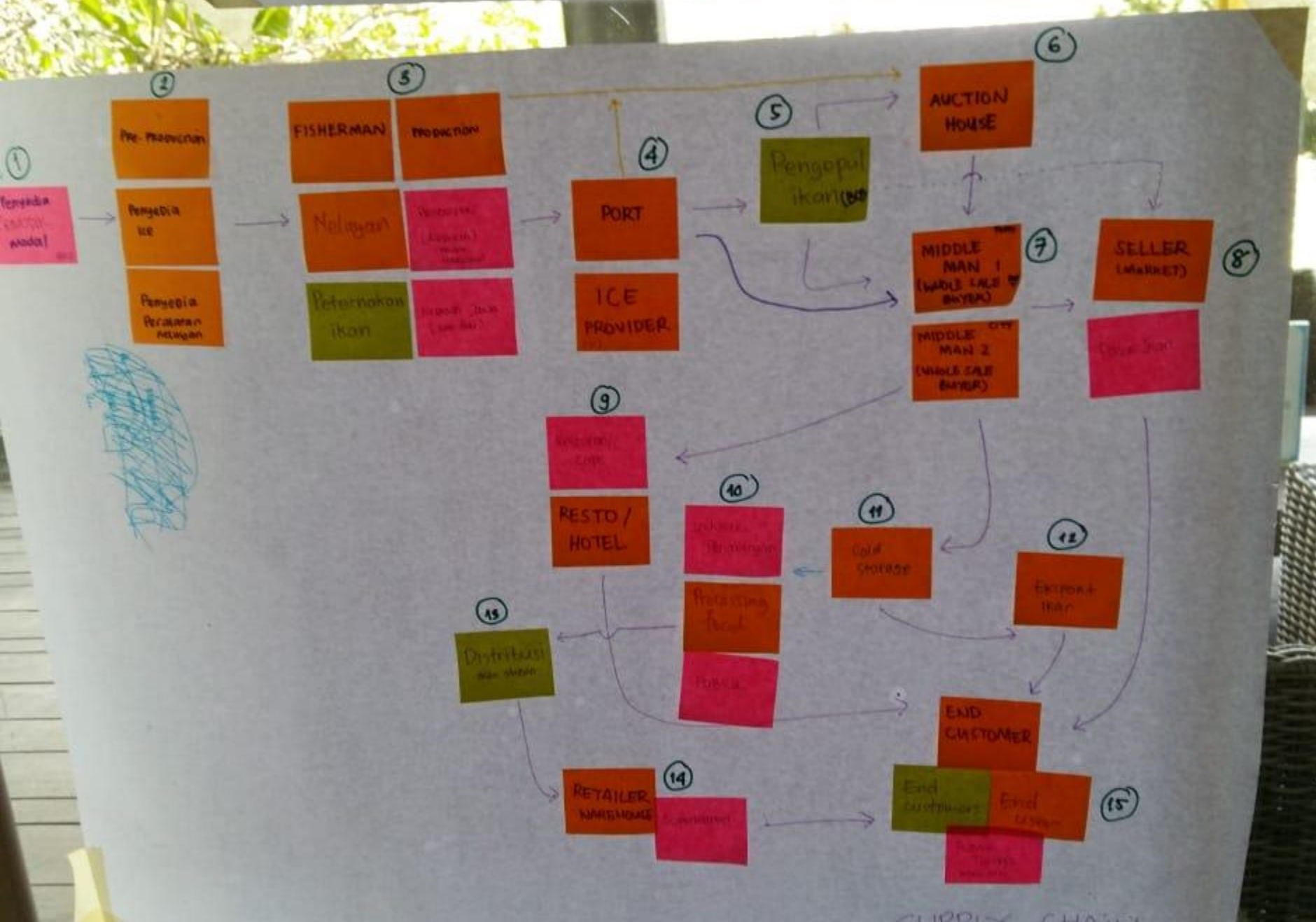

HDI
COMING SOON IN 2019


1
2
Pre-Production
Penyedia Es
Penyedia Peralatan Nelayan
5
FISHERMAN
Production
Nelayan
Peternakan ikan
4
PORT
ICE PROVIDER
5
Pengepul ikan
6
AUCTION HOUSE
7
MIDDLE MAN 1 (WHOLE SALE BUYER)
MIDDLE MAN 2 (WHOLE SALE BUYER)
8
SELLER (MARKET)
9
RESTO / HOTEL
10
11
Cold Storage
12
Ekspor ikan
13
Distribusi
Retailing food
Public
RETAILER
14
END CUSTOMER
End customers
End
15

GATHERING WITH YOUNG INNOVATOR AND ENTERPRENEUR IN BALI.



PROGRAM FOR SME, FISHERIES, PRACTICES, AND ACADEMIC PRATICES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Retailing food
Public
RETAILER
14
END CUSTOMER
End customers
End
15

Forum Insinyur Wanita (FIW) – Proposed Programs

1. **Conferences**
   - Engage on Annual Conferences; i.e. Mid-term WE-CAFEO, WE-CAFEO, WE-FEIAP, WE-IEEE, etc.
   - Held sponsored Conferences, Seminar or relevant activities.

- PARTICIPATE IN UNESCO PROGRAM – PII PROGRAM ”SOUTH-SOUTH COOPERATION FOR STRENGTHENING ENGINEERING COOPERATION AND MOBILITY OF ENGINEERS (Being Speaker and Moderator)

PARTICIPATE IN UNESCO PROGRAM: SCIENCE TO ENABLE AND EMPOWER ASIA PACIFIC (SEEAP)


Science to Enable and Empower Asia
for Sustainable Developmen


Science to Enable and Empower Asia Pacific (SEEAP)
for Sustainable Development Goals


PERSATUAN INSINYUR INDONESIA
SILATURAHIM
&


reditation, IABEE Inauguration
and International
minar on Quality of Engineers
13 March 2018

Forum Insinyur Wanita (FIW) – The Proposed Programs

2. Local Activities

- Sponsored Sport Activities in related to special occasionS, i.e. National Mother Day, International Mother Day, etc.
- Bazaar.
- Exhibition.

INVOLVED IN YOUNG START-UP ENTERPRENEURS ACTIVITIES.

PII AND SWE ACTIVELY INVOLVE IN PROMOTING TECHNOLOGY TO YOUNG PEOPLE.


BIKINBOT


ROBOTIC
AUTOMATION TECHNOLOGY EDUCATION CENTER

FUTURE LABS

Education for the Future

Equiping Indonesia's Next Generation with Tools and Skills to Create Better Future in Technological and Digital World

WHAT WE DO

We build curriculum

Our curriculum are based on International standards referencing to US & Singapore Sciences, Engineering and Computer Science Education Standards and locally adapted to Indonesian context.

We develop teachers & educators

We train and certify teachers and educators to equip them with necessary skills, knowledge, and access to teaching tools and community support to conduct an effective computer science program.

We build tools & materials

We develop and use existing learning tools and materials to make it easy for students to grasp the concept of computer science in a more fun and

Forum Insinyur Wanita (FIW) – The Proposed Programs

3. Publishing

- Set up FIW website.
- Issue regular publication, i.e. newsletter, etc.

Forum Insinyur Wanita (FIW) – The Proposed Programs

4. **Societies**
   - Blood Donors.
   - Donation.
   - Etc.

MARKETING COOPERATION OF MINYAK KUTUS-KUTUS BALI, AUGUST 2018.

Forum Insinyur Wanita (FIW) – The Proposed Programs

5. **Technical Careers**
   - Lectures.
   - Trainings.
   - Courses.
   - Etc.

AS SPEAKERS, JUDGES, AND PARTNERS IN DEVELOPING OF ENTERPRENEURSHIP IN STUDENT SOCIETIES.

CONSULTANCY AND ADVISORY
IN DEVELOPING CREATIVITY.


activity


ROBOTIC
AUTOMATION TECHNOLOGY EDUCATION CENTER


MARKODING!
<mari kita koding!>
Memberdayakan generasi muda marginal Indonesia melalui coding!
Scan QR Code!
APA YANG MARKODING KERJAKAN?
PROGRAM MENTOR DAN RELAWAN
TRAINING DI SEKOLAH DAN KOMUNITAS
KURIKULUM BERBASIS TEKNOLOGI INFORMASI YANG SIAP KERJA
Makedonia

TRAINING FOR SME OF FAMILY SCHEME IN COUNTRYSIDE AS PART OF CSR TO SOCIETIES.

Forum Insinyur Wanita (FIW) –

6. Volunteers

- For various activities ---.


BKSTI
Ubaya Training Center (UTC)
12 - 13 Februari 2018
Badan Kerjasama Penyelenggara Pendidikan Tinggi Teknik Industri (BKSTI)
Koordinator Wilayah Jawa Timur


Selamat Datang
UNTAG Surabaya
acer

FIW MEMBERS ACTIVELY INVOLVE IN PII ACTIVITIES i.e. NATIONAL LEADERSHIO MEETING IN MALANG, EAST JAVA, 2018.

COLLABORATION WITH ENTERPRENEUR NETWORKING OF INDIA AND MALAYSIA.

COOPERATION AND MEETING WITH YOUNG ENGINEERS, i.e. SWE TEAM.

PLANNING OF ACTIVITIES WITH YOUNG ENTERPRENEUR FOR TEENAGERS AND ADULT.

WORKSHOP PROGRAM FOR INDONESIA ENGINEER PROFESSIONAL PROGRAM WITH HIGH EDUCATION INSTITUTIONS (UNIVERSITIES) AT EAST JAVA REGION.

UPCOMING PROGRAMS

RESONATION

WOMEN EMPOWERMENT CONFERENCE

MAYA HASAN
Versatile Harpist

GRACE NATALIE
Politician, Leader of Indonesian Solidarity Party (PSI)

IDIL AHMED
Founder Idilionaire & Author Manifest Now

GRETTA VAN RIEL
Multimillion Serial Entrepreneur
5 Years, 5 Startups

EKA JARI LORENA
Entrepreneur & Pres.Dir Jadin Cairos Prima

JTEFANIE KURNIADI
Co-founder of CRP Group 'Warunk Upnormal'

BUILD YOUR OWN DOOR

resonationid · resonationid · resonation_id · www.resonation.id

CONFERENCE DATE

01 DEC 2018

08.00 - 18.30

THE KASABLANKA, JAKARTA

Mentoring Session by 100 Female Leaders of Indonesia

PREPARATION OF CAFEO-37
COMPETITION FOR ENGINEERING STUDENTS

Goal:

To develop new distinctives product design/system, i.e. one that is beneficial for disable people and elderies, trash processing with 3D printers for prototype, etc.

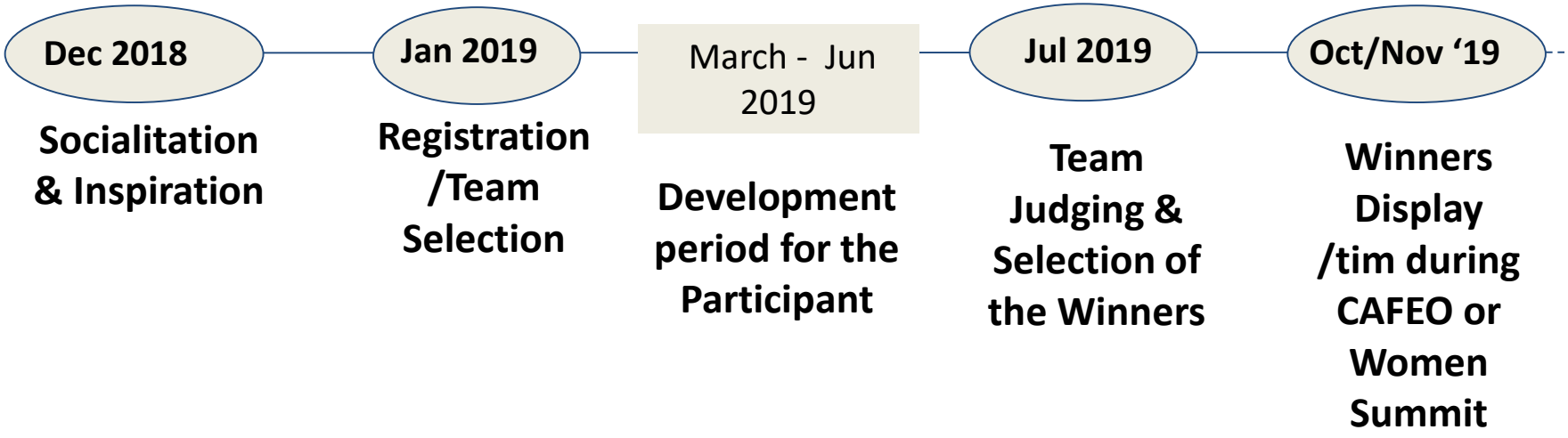
Period: December 2018 – September 2019

Participants:

Engineering Students

1) Team of 4 – 10 members
2) Comprises 2 different major of engineering.
3) Male engineering student is max. 50% of total team members.

Time Line



Q4 Q1 Q2-3

THANK YOU

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+628129006255, +6282211000141