



7th ASEF Rectors' Conference & Students' Forum

**Higher Education Taking Action towards the Sustainable Development Goals:
Perspectives from Europe and Asia**

Towards Socially Responsible University: SDGs Implementation at UGM through Community Services

Prof. Panut Mulyono
Rector of Universitas Gadjah Mada (UGM)

13/05/2019, Bucharest





Understanding Indonesia



GDP #16 | 17.508 | 34 | 515 | 82.505 | 266 million

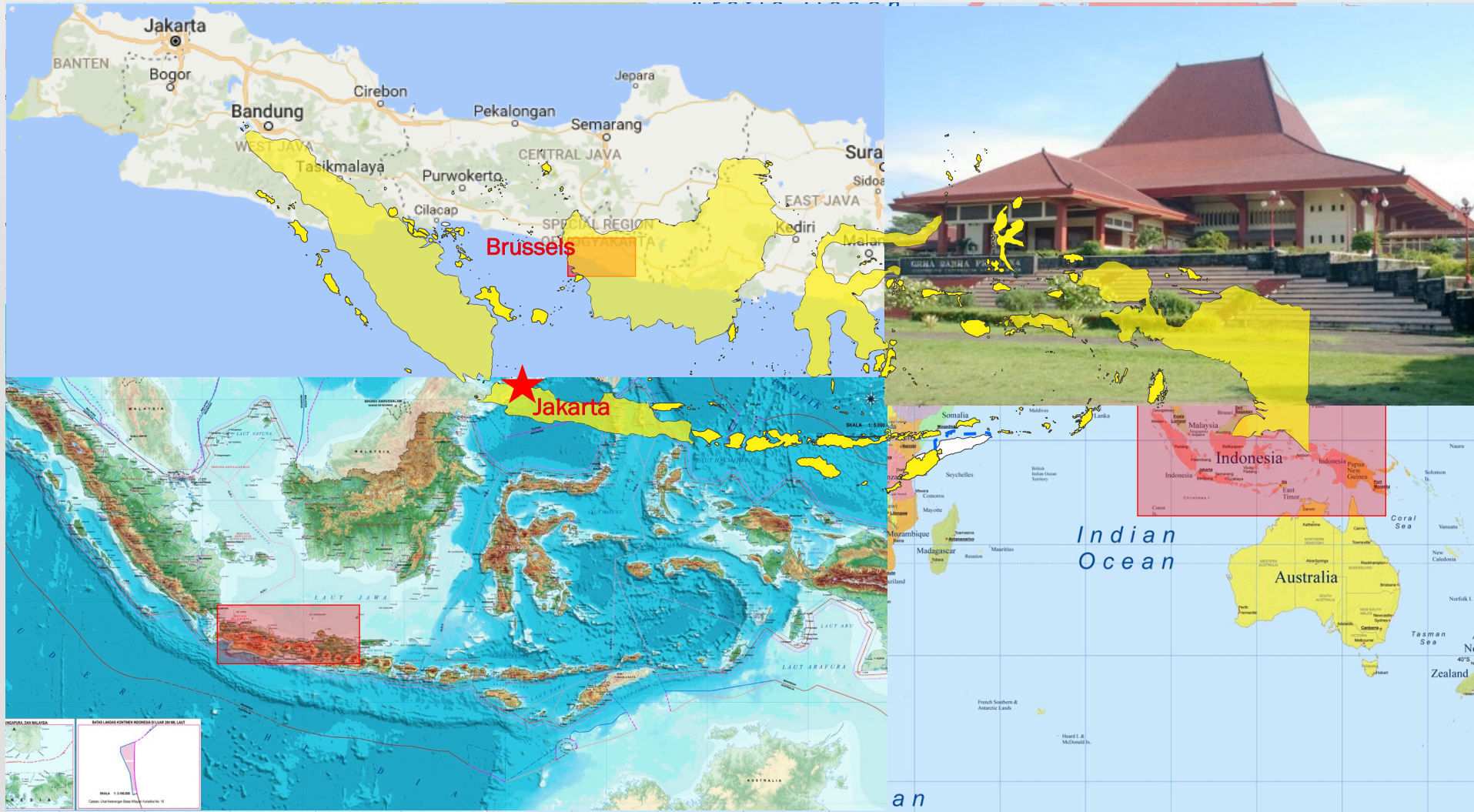


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UGM's location





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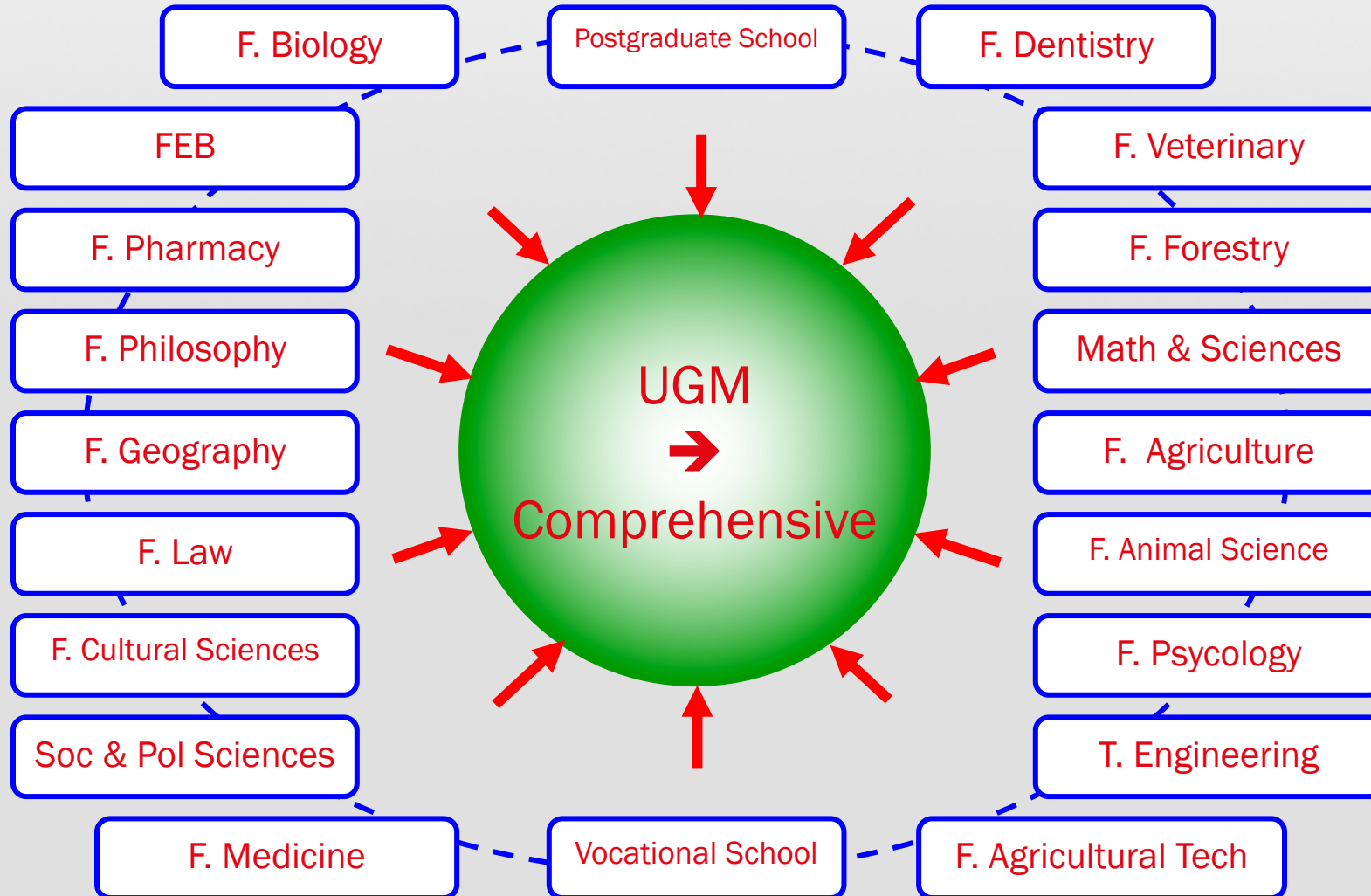
UGM for Indonesia and the World

- Established: 1949
- Student Body: 53 thousands
- International Students: 2000s per year
- Faculty Members: 4000s



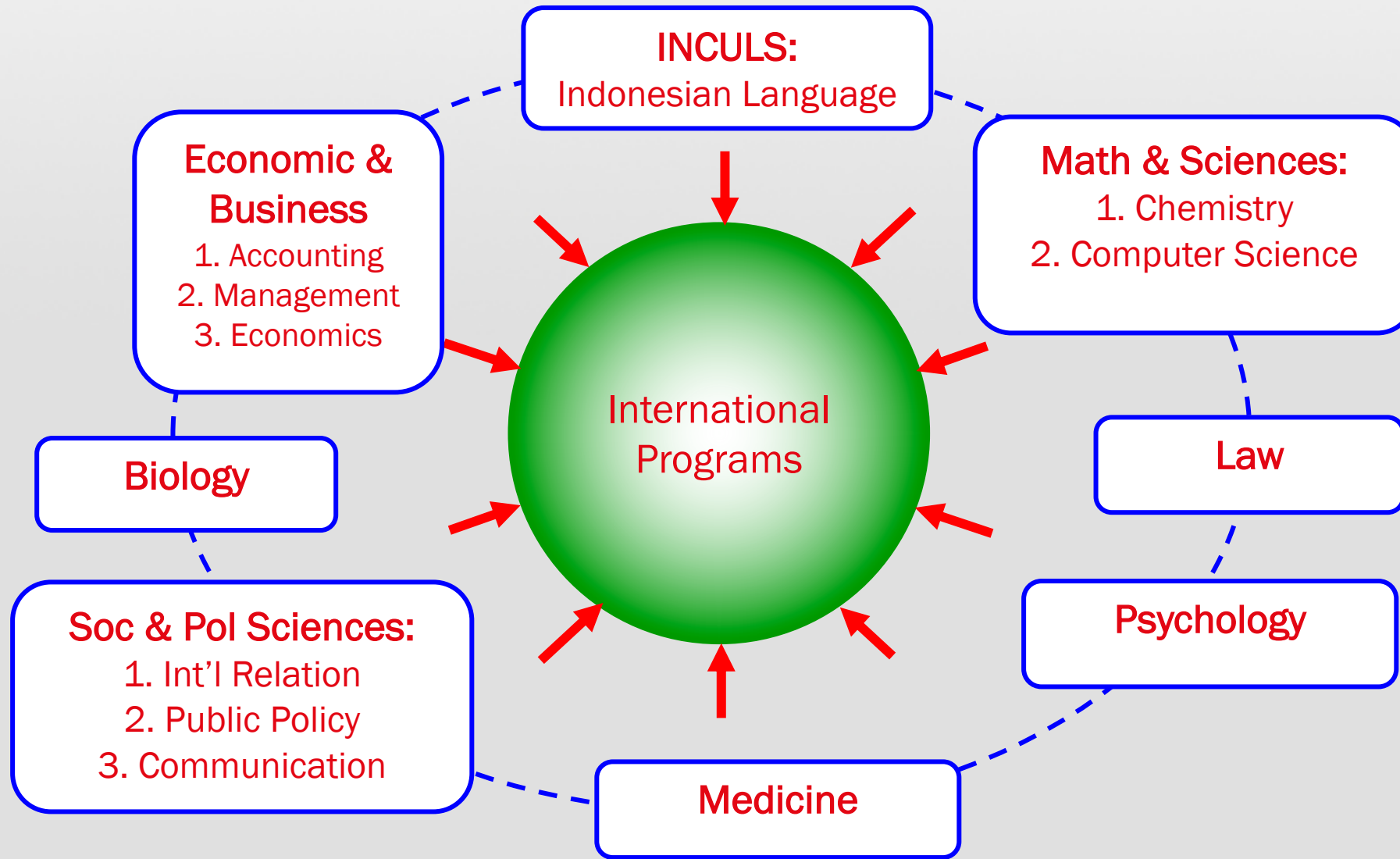


UGM: A tale of comprehensiveness





International Programs - Undergraduate





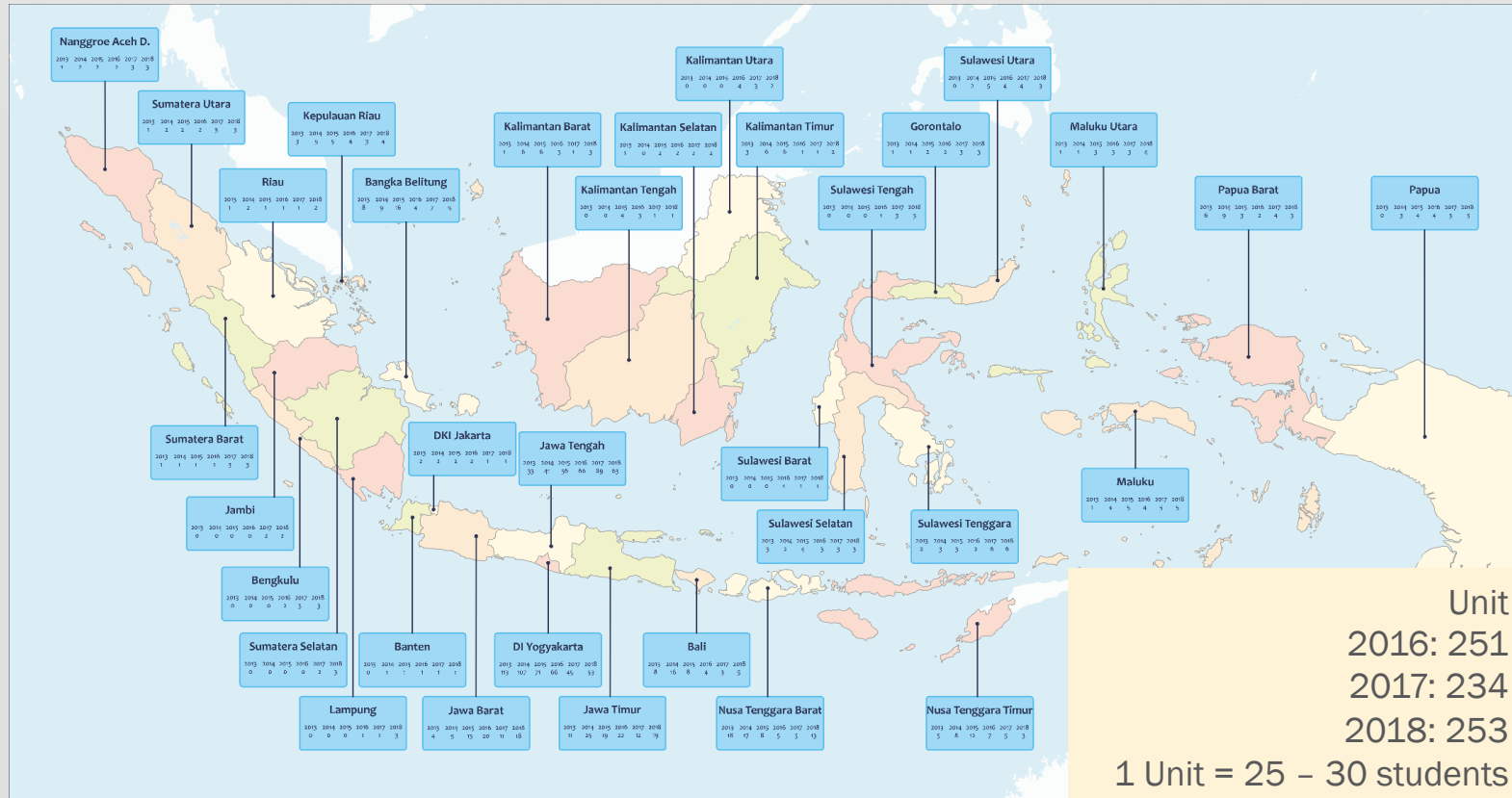
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Compulsory Student Community Services at UGM

- Annually, around 7,300 students are sent to all over Indonesia
- 34 provinces
- Living with the community for two months



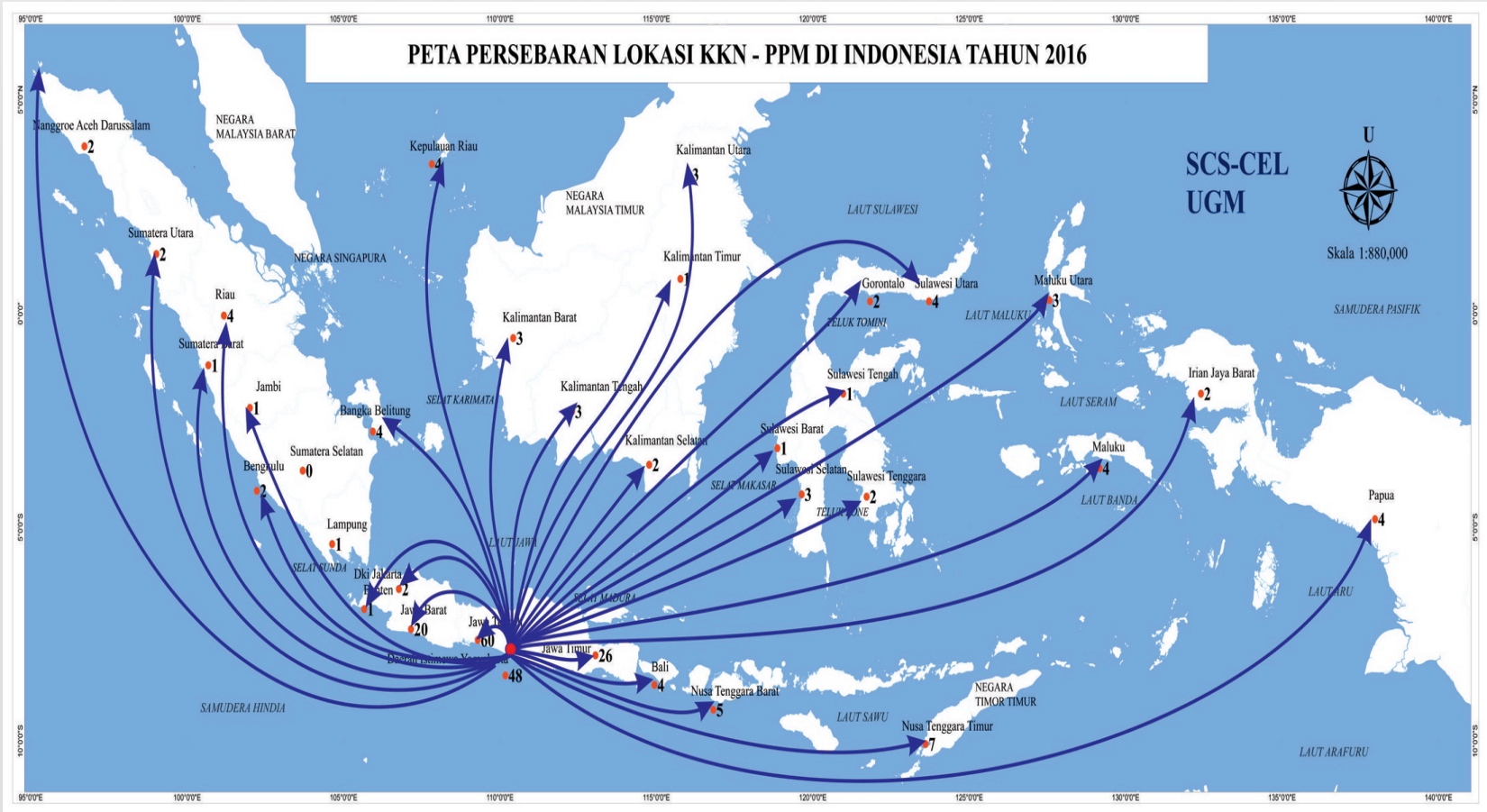


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Distribution





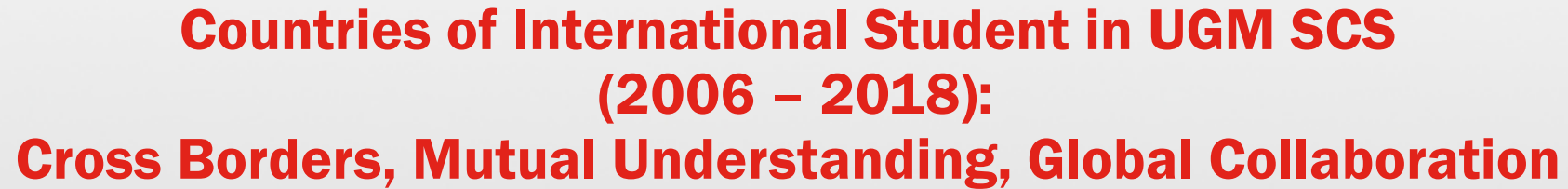
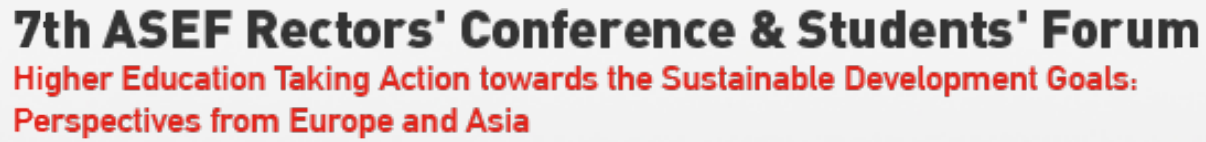
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History, Principles, and Objectives of SCS

1. SCS was initiated in 1971 that was addressed to diminish the illiteracy of Indonesian people and to fulfill the lack of the teachers.
2. SCS is a compulsory 3 credits course for undergraduate students before graduation.
3. At the end of the study (after taking 110 credits), students will learn for 2 months in the community and stay with the community.
4. Involving stakeholders: Government, Industry, Communities, and Professional Associations.
5. Build the empathy, awareness to the problems in society and scientific spirit.
6. Apply the knowledge, science and technology developed during the courses to the society within multi-disciplinary and teamwork approach.
7. Build the nationalism character of the students.
8. Increase the national competitiveness.
9. Propose some solutions of social problem with entrepreneurial approach.





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SCS UGM 2015



Locally Rooted, Globally
Respected



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Locally Rooted, Globally Respected





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Community Services at UGM to support SGDs



17 Sustainable Development Goals



Integrated Waste Management





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Revitalization of Education

International Students Conducting Community Service





Integrated Bio-Cycle Farming System

INTEGRATED NUTRIENT MANAGEMENT

and empowering nutrient cycling, compost, green fertilizer.

INTEGRATED MOISTURE MANAGEMENT

efficient soil moisture management through: irrigation, semi-technical irrigation, non-technical pump, "sumur renteng", infuse system, pipe, system surjan, gel, Mulch, suitable low consumption

AMEMAYU HAYUNING BAWANA

NATURAL RESOURCE MANAGEMENT

- Land & Water Resource Management
- Biological Resource Management
- Environmental resource management

EFSD: ABCG: Multi-disciplin, Multi-sectoral, Integrated & Comprehensive

LANDSCAPE ECOLOGICAL MANAGEMENT & MULTIFUNCTION

ED, FEED, FUEL, FERTILIZER, FIBER, WATER, OXYGEN, MEDICINE, EDU-TAINMENT

INTEGRATED BIO-CYCLE FARMING SYSTEM (IBFS)

Integrated (Crop, Nutrient, Moisture, Pest) Management

GENETIC & SITE ENGINEERING **GAMA FOOD** CYCLES OF ORGANIC, WATER, ENERGY

9R (reuse, reduce, recycle, refill, replace, repair, replant, rebuild, reward)

INTEGRATED PEST MANAGEMENT

pesticide, medicine plant, natural, bio-remediation, bio-accumulation

consist of agriculture, plantation, forestry, animal husbandary and other life

INTEGRATED CROP MANAGEMENT

consist of agriculture, plantation, forestry, animal husbandary and other life

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



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UGM Disaster Response Unit: Fast Response, Competence, High Impact





Land & Water Resource Management

TAMAN VERTIKAL

Produk KP4 UGM

KAWASAN KARST GUNUNG-SEWU GEOPARK

33 GEOSITE DI KAWASAN GUNUNG SEWU

Luas seluas 1.802 km² dibagi menjadi 3 GeoArea (Gunungkidul, Wonorejo, Pacitan)

Terdiri dari 33 situs warisan alam (30 situs geologi, 3 situs non-geologi)

GeoArea Gunungkidul= 13 situs, GeoArea Wonorejo= 7 situs, GeoArea Pacitan= 13 situs

Locally Rooted, Globally Respected

www.ugm.

PRODUK-PRODUK JAHE

Kristal

Jahe besar

Jahe empit

Jahe merah

Muda

Tua

Segar

Irisan Kering (Simplisia)

Jahe asin

Permen/kristal

Selai, Jamu

Segar (Bumbu, Jamu, Minuman)

Bumbu, Jamu, Instan, Sirup, Anggur

Obat Tradisional/Jamu

Bubuk (Jamu, Bumbu)

Minyak Atsiri (Makanan, Obat)

Oleoresin (Makanan, Minuman, Obat)

Simplisia

Asinan

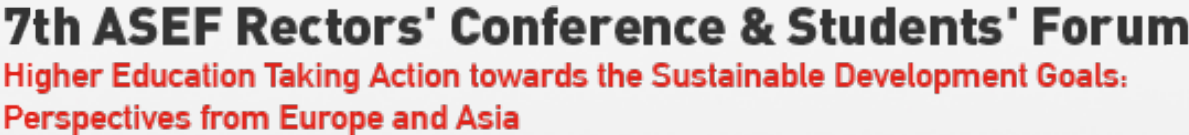
Minyak

Obat

Aneka

13 CLIMATE ACTION

Land & Water Resource Management in Karst Gunung Sewu Unesco Global Geopark



Natural Resource Management in Morotai Island





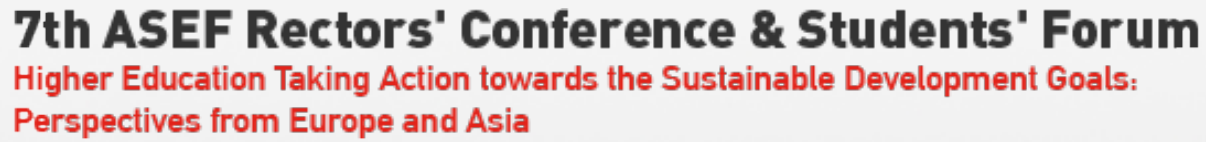
School for Traditional Market (Sekolah Pasar Rakyat)



Traditional Market Empowerment

For better management of traditional market to face global economy within framework of Community-Based Economic

(Pusat Studi Ekonomi Kerakyatan UGM)




The diagram illustrates the research strategy of the Center of Excellence for Sustainable Development. It features a central vertical flow of four boxes: a green box for 'Research based Learning and Education', a green box for 'World Class Research University', a red box for 'Institution for Sustainable development toward World Class Research University', and a white box for 'International reputation on Ethics and Science for Sustainable Life'. Arrows indicate a downward flow between these boxes. To the left, a blue box for 'Education for Sustainable Development' and a brown box for 'Science Based Development' have arrows pointing up to the 'World Class Research University' box. Above the 'Research based Learning and Education' box is a blue box for 'Autonomous PI (IRIN) Center of Excellence Inter & multi-disciplinary', with an arrow pointing down to it. A large, faint background image of a person is visible behind the text.

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graph TD
    A[Autonomous PI (IRIN)  
Center of Excellence  
Inter & multi-disciplinary] --> B[Research based Learning and  
Education]
    B --> C[World Class Research  
University]
    C --> D[Institution for Sustainable  
development toward  
World Class Research  
University]
    D --> E[International reputation on  
Ethics and Science for  
Sustainable  
Life]
    F[Education for Sustainable  
Development] --> C
    G[Science Based  
Development] --> C
  
```

2-26-13
Saburo Imai



The icon for Sustainable Development Goal 15, 'Life on Land', is a green square. It features the number '15' in large white font, followed by the text 'LIFE ON LAND' in smaller white capital letters. Below the text is a white silhouette of a tree with a cloud-like canopy, and two white birds are flying to the right of the tree. At the bottom of the square are three horizontal white lines of varying lengths, representing a ground surface or water.



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SEKOLAH SUNGAI (RIVER SCHOOL) SUPPORTING THE INDONESIAN RIVER RESTORATION MOVEMENT BASED COMMUNITY

River School (Sekolah Sungai) (Yogyakarta, Klaten and Solo)

Background on the development of **Sekolah Sungai**: the stream degradation in Indonesia reached 73% in 2014 (according to the Ministry of Environment and Forestry), and the management of rivers today is far from the ideal. This River School objectives are to develop the responsibility of the community, transfer of river knowledge and develop the knowledge and understanding of the community about river and environment. The River School produce also module, book, film, comic and history in order to support the social economic environment of the community.

The River School Modules are :

1. Concept and implementation of river restoration
2. River pollution and waste management
3. Empowerment and organization of riverbank communities
4. Development of Tourism
5. Disaster risk reduction
6. Improving local economy

River Restoration

- Hydrological Restoration (water quantity and quality)
- Ecological Restoration (Flora and Fauna of the stream)
- Stream Morphology Restoration (lengthwise and crosswise grooves stream)
- Socio-economic and Cultural Restoration (improving people awareness who lives near stream area)
- Regulation and institution of river restoration (river community group)



Codo River, Yogyakarta before restoration

The Plan of Codo River Restoration



Klaten River School: Resik Kali



Kartini Day & Earth and Environment Day Celebration



Yogyakarta River School: Clean Water Day in Gajah Wong River

Philosophy of the Program

- The activity is undertaken by the philosophy of community movement
- The activity stimulate and generate a new movement concerned to the environment and forestry
- The activity encouraging local community to be active in collaboration with all stake holders
- The organization and activity is using Systemic and network approach

Love and Affection are the Souls of Indonesia River Restoration Movement (GRSI)



I remove the river waste because of love



I do rafting because of love



UGM Launching Srikandi Sungai Indonesia : Prof. Suratman



Code Inspiration Park



RSI movement is a cultural act, hence Slamet Raharjo willing to become the Yogyakarta/Indonesia River Ambassador.



Indonesian River restoration movement (IRRM) begins with socialization of river flood plain awareness in 2001.

WhatsApp Group of Indonesian River Restoration Movement since 2016

- | | |
|-----------------------------|----------------------------|
| 1. GRSI, IRRM Yogyakarta | 10. GRSI, IRRM Banjarmasin |
| 2. GRSI, IRRM Jakarta-Bogor | 11. GRSI, IRRM Lombok |
| 3. GRSI Bandung | 12. GRSI, IRRM Manado |
| 4. GRSI, IRRM Surakarta | 13. GRSI, IRRM Sukoharjo |
| 5. GRSI, IRRM Semarang | 14. GRSI, IRRM Jember |
| 6. GRSI, IRRM Surabaya | 15. GRSI, IRRM Tasikmalaya |
| 7. GRSI, IRRM Klaten | |
| 8. GRSI, IRRM Makassar | |
| 9. GRSI, IRRM Aceh | |

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Power Plants for Water Raising



Solar panel



Electrical generator with
55kVA using biofuel





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Prosperity through Community Empowerment



Empowerment of cocoa
farmers in Girimuljo

1 NO
POVERTY



2 ZERO
HUNGER





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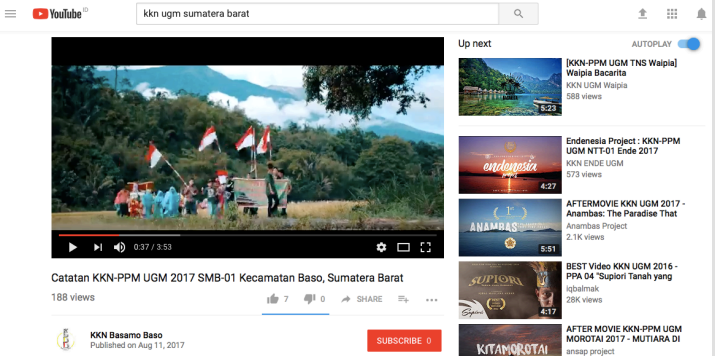
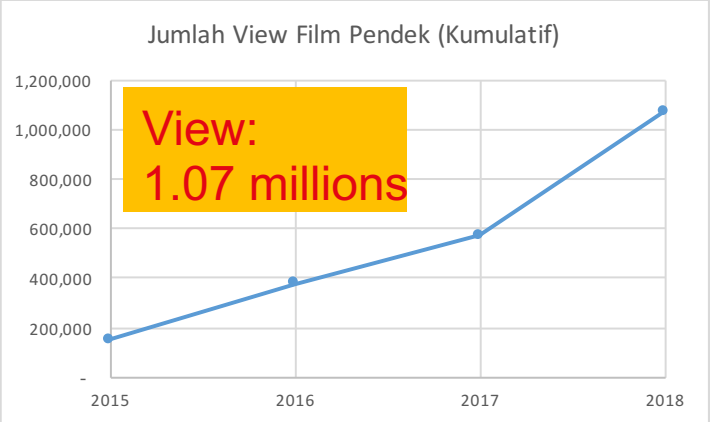
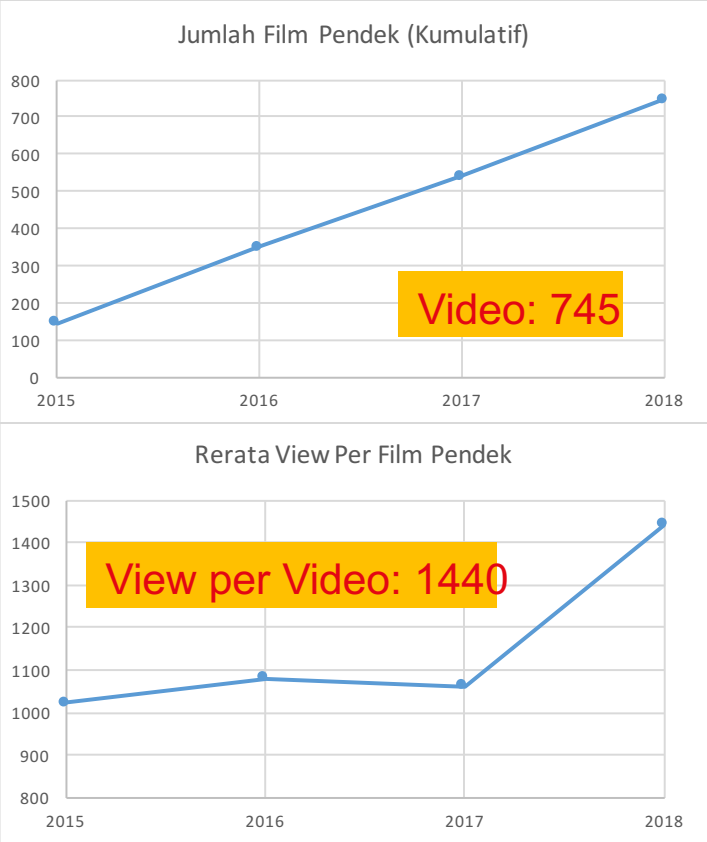


Cocoa and Tea - Industry and Community Driven





Dissemination of Student Community Service Trough Socmed





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Concluding Remarks

- Higher Education Institution has to contribute to the society.
- Not ivory tower but water tower: approachable and relevant.
- Compulsory Student Community Service in UGM is one of the ways out.
- 17 SDGs serve as a guide for contribution towards a socially responsible University.