

Economy, Social system and Occupational Safety and Health

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I have no conflicts of interest to disclose

- Economic Development and Occupational Safety and Health
- Perspectives in Occupational Health
- Who ICOH is?

Economic Development and Occupational Safety and Health

Health

- Illnesses or Diseases
- Chronic
- All workers
- Multifactorial

Safety

- Injuries or Accidents
- Acute
- Common in dangerous work
- Single factor

Challenges

Conflict in society regarding occupational diseases or workers' health

Occupational
Health &
Safety

Work

Economy

ISSUES	Economic Level	Nature of industry	Major interest		Occupational Health	Social Security
			Society	Individual		
Health	Low-income	Labor Intensive work (Agriculture, Mining, Textile, Apparel)	Product	Having a job	Occupational Diseases	None
Safety	Middle income	Capital intensive manufacturing (Machinery, Chemicals, Construction)	Quality of product	Standard living	Work-related Diseases (NCD)	Basic (medical/pension)
Health	High income	Knowledge intensive work (High-tech, Electronics, Pharmaceutical, Service)	HSE	Quality of life	WellBeing	Complete (Unemployment/Sick-leave)

None

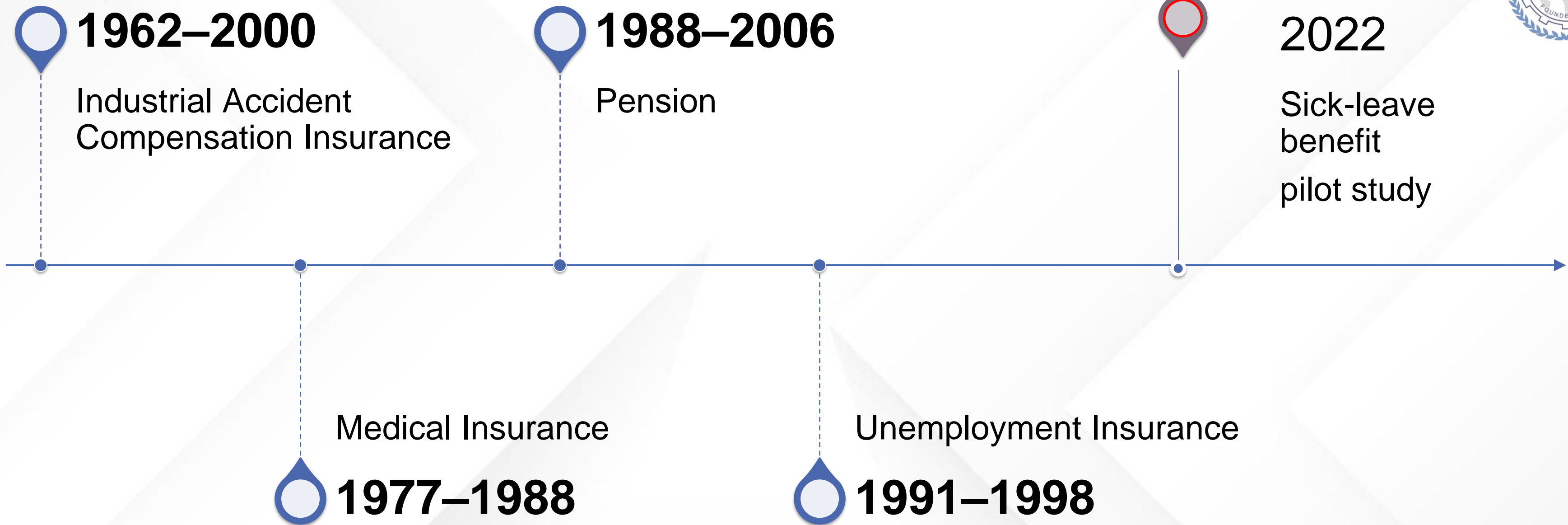
- Low-income countries: Health
- Diseases caused by poor hygiene (infection, malnutrition)

Incomplete system

- Middle to High income countries : Safety
- Injuries caused by unsafe facilities and equipment

Complete system

- High income countries : Health
- Diseases caused by degeneration, aging, mental stress



□ Type of work

- ◆ Informal sectors
 - Small-scaled enterprises
 - Platform labor
 - Gig workers
- ◆ Formal sectors
 - Increased mental stress
 - Work from home/Virtual meeting
- ◆ Vulnerable work
 - Agriculture and fishing
 - Construction

□ Type of Workforce

- ◆ Aged (age over 65 years old)
- ◆ Migrant (including undocumented)
 - Heat stress of migrant workers
- ◆ Less educated workers
- ◆ Female (childbearing age)
- ◆ Adolescent/child labor (part-time work)
- ◆ Disabled (congenital and acquired)

Globalization

- Goods that we need are produced anywhere in the world.
- Hazards are shifting from High to LM income (area/country)
- People are striving for better income
- Migrant workers are moving from LM to High income

OSH Priority based on economic development

- Moving hazards from High income to LM Income(areas/countries)
- Priority should be given according to the economic development and social security status in each country

Occupational health & safety (OHS) has developed step by step in high-income countries .

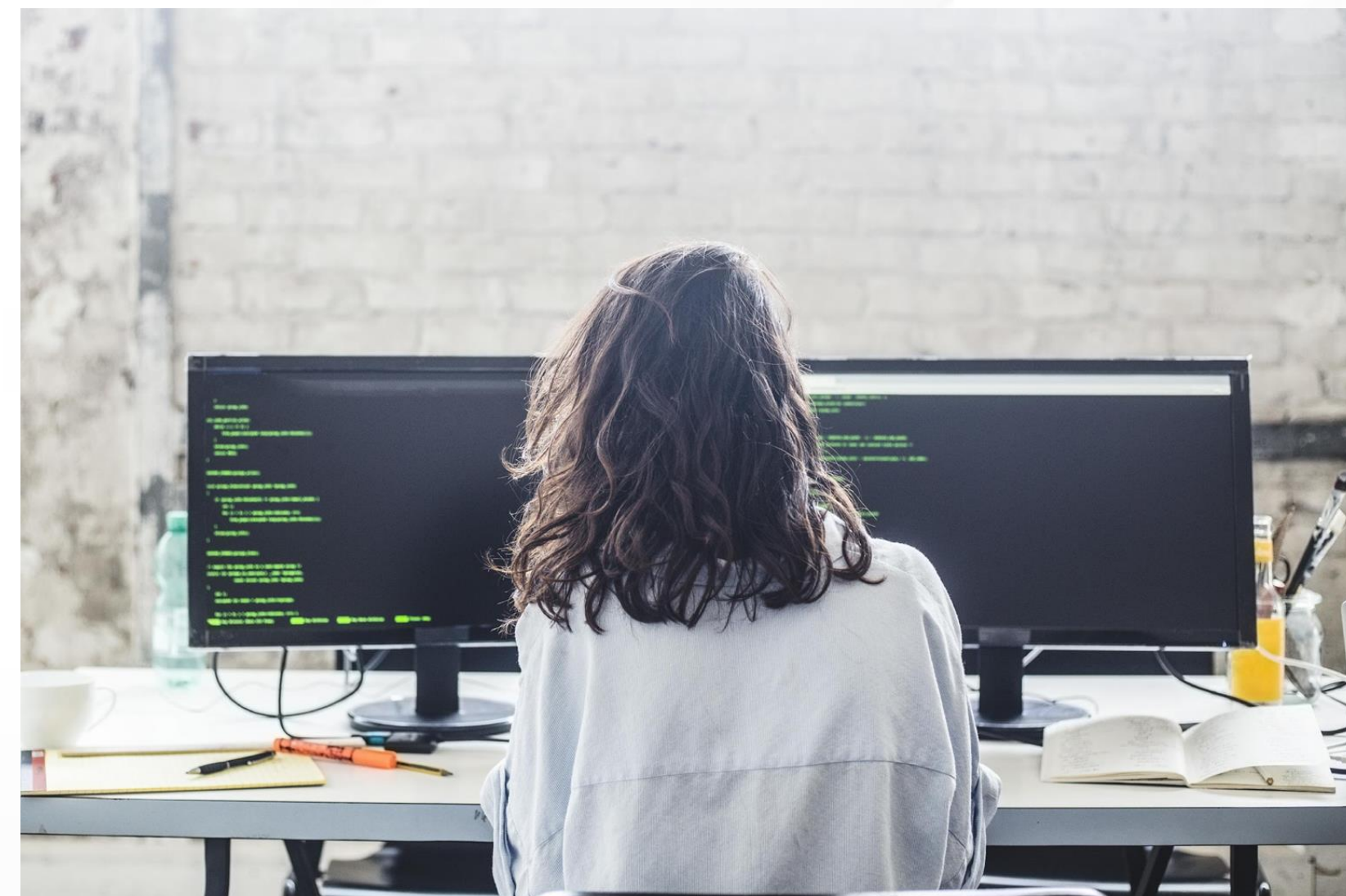
Problems of OHS are arising concurrently in low and middle-income countries.

The strategic approach has become confused in certain circumstance, in some countries.

- Low and Middle-income vs High-income countries
 - Workability (For return-to-work / Not to allow work)
 - Stress related diseases (Overburden of work vs Conflict with others)

Perspectives in Occupational Health

- Pneumoconiosis
- Noise Induced Hearing Loss?



Occupational Diseases

- Diseases by physical agents
- Diseases by chemical substances
- Diseases by biological hazards

Work-related Diseases

- Diseases by work facilities and equipment
 - Musculoskeletal disorders
- Diseases by work organization, stress, working hours and other social factors
 - Heart disease, stroke, mental diseases, GI troubles



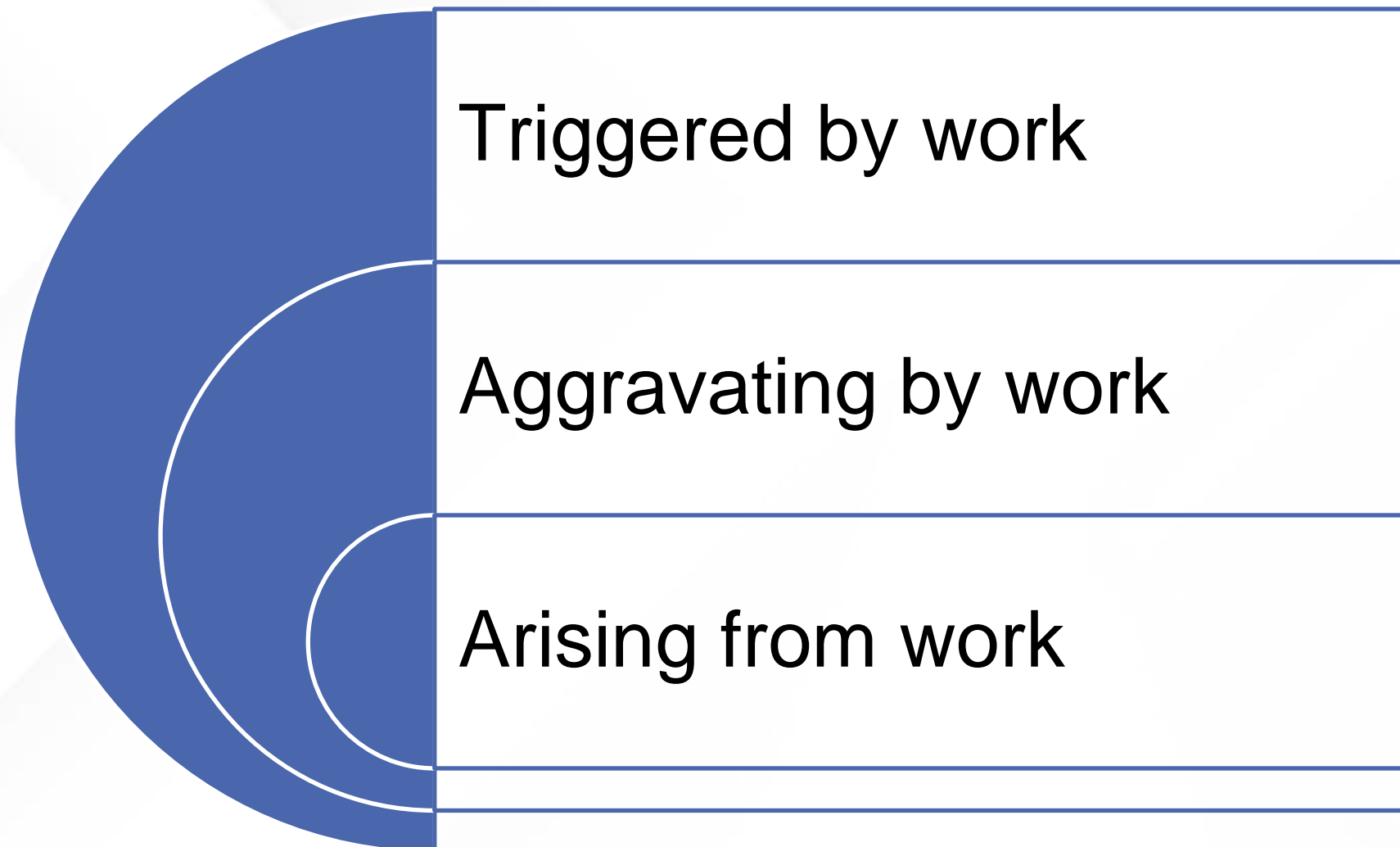
Occupational
Diseases

What is the occupational disease?
Why are some diseases
compensated, but the others are not?

Prevention



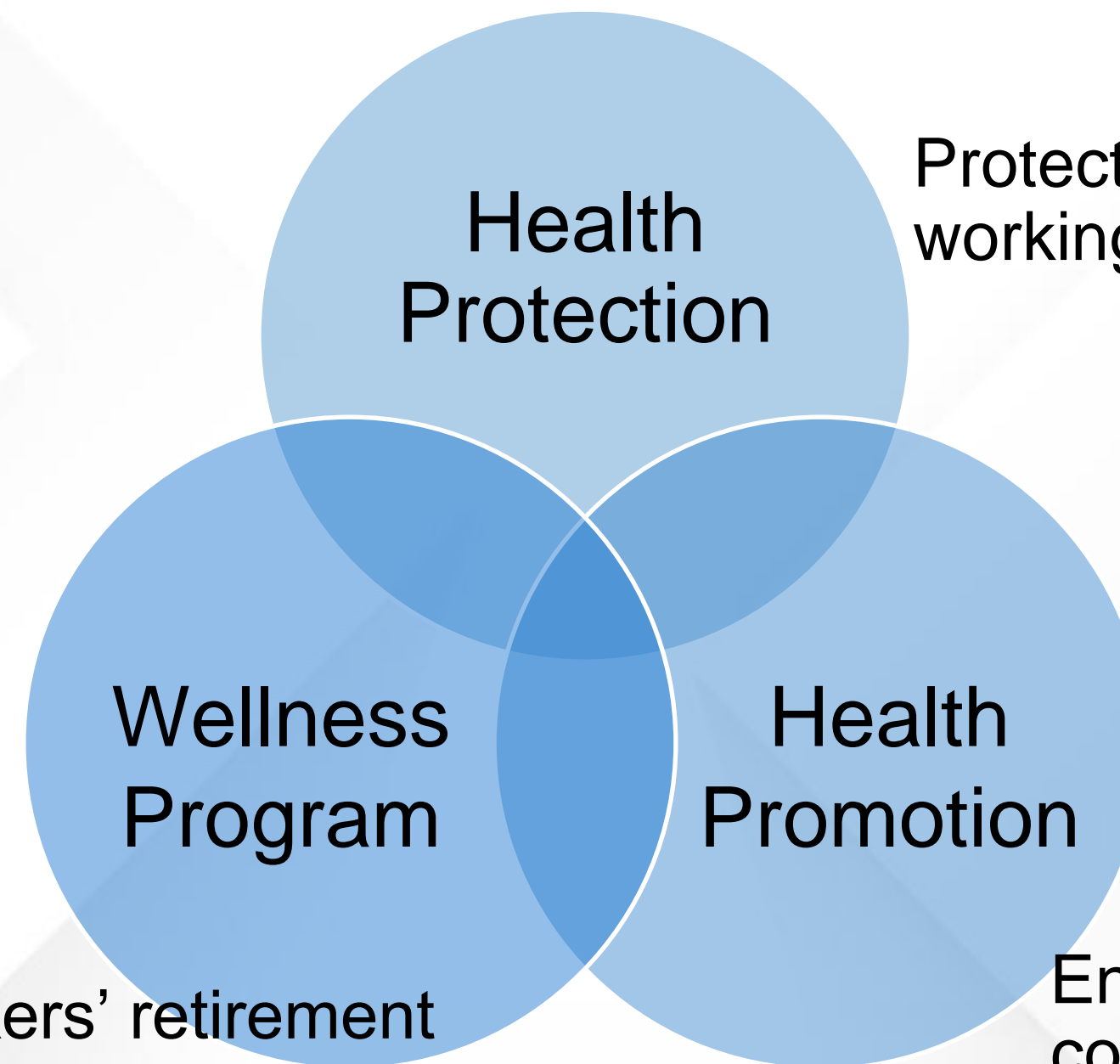
Compensation



Social Consensus

Causal Relationship

What occupational health is?

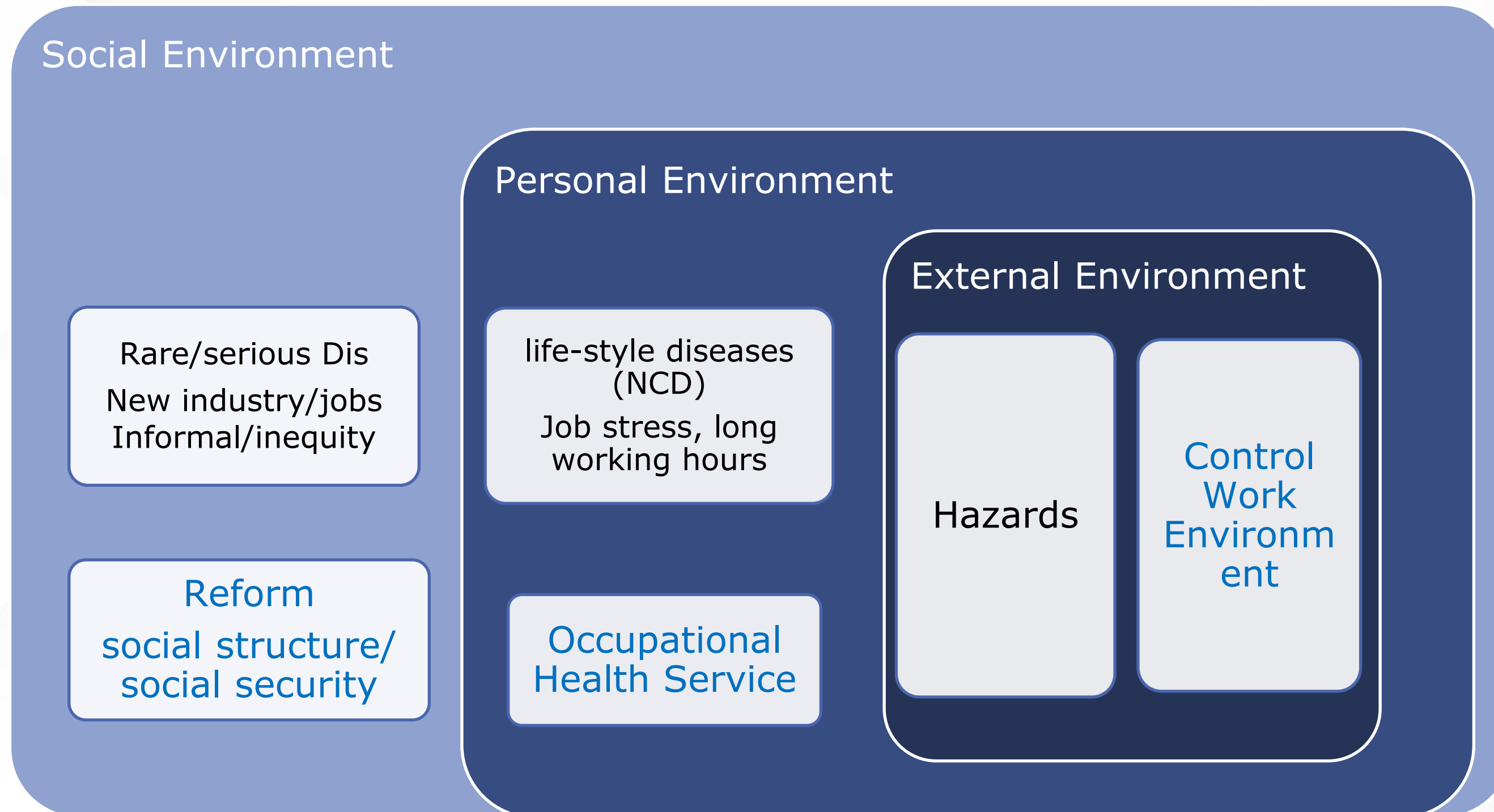


Protect workers from
working environment

Prevent premature workers' retirement
Promote workers' well-being and health

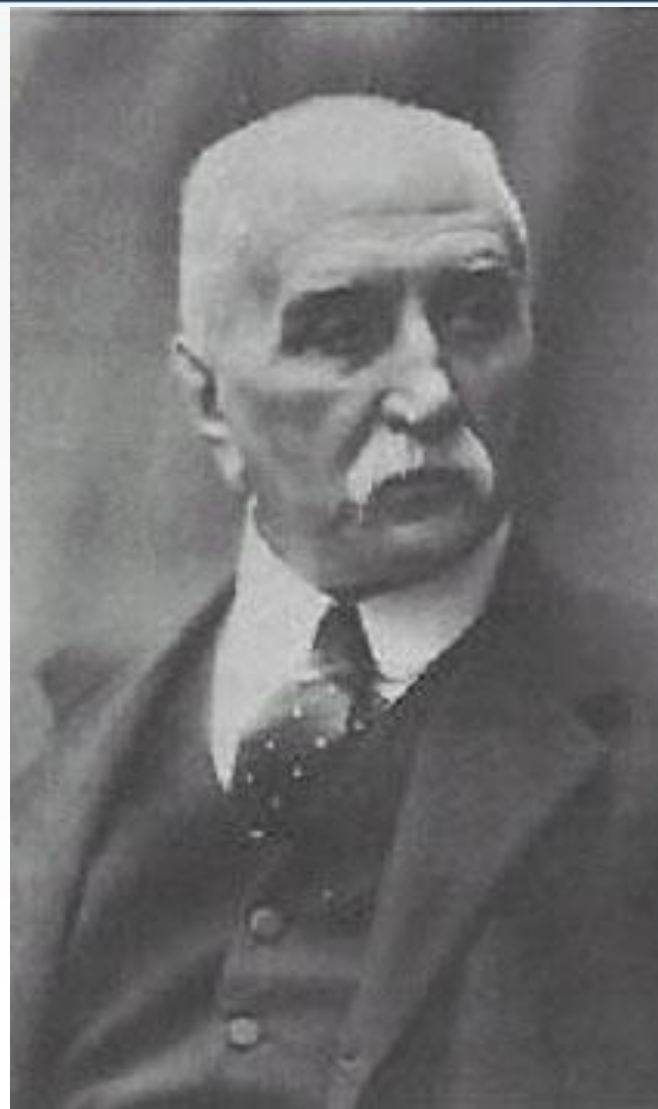
Enhance workers' health by
controlling life-style patterns or
diseases





Kang SK. New Concept on occupational health development: 3 phases. Ind Health. 2015;53:109-111

Who ICOH is.



Malachia De Cristoforis

1906 Milan

First International Congress for Occupational Health



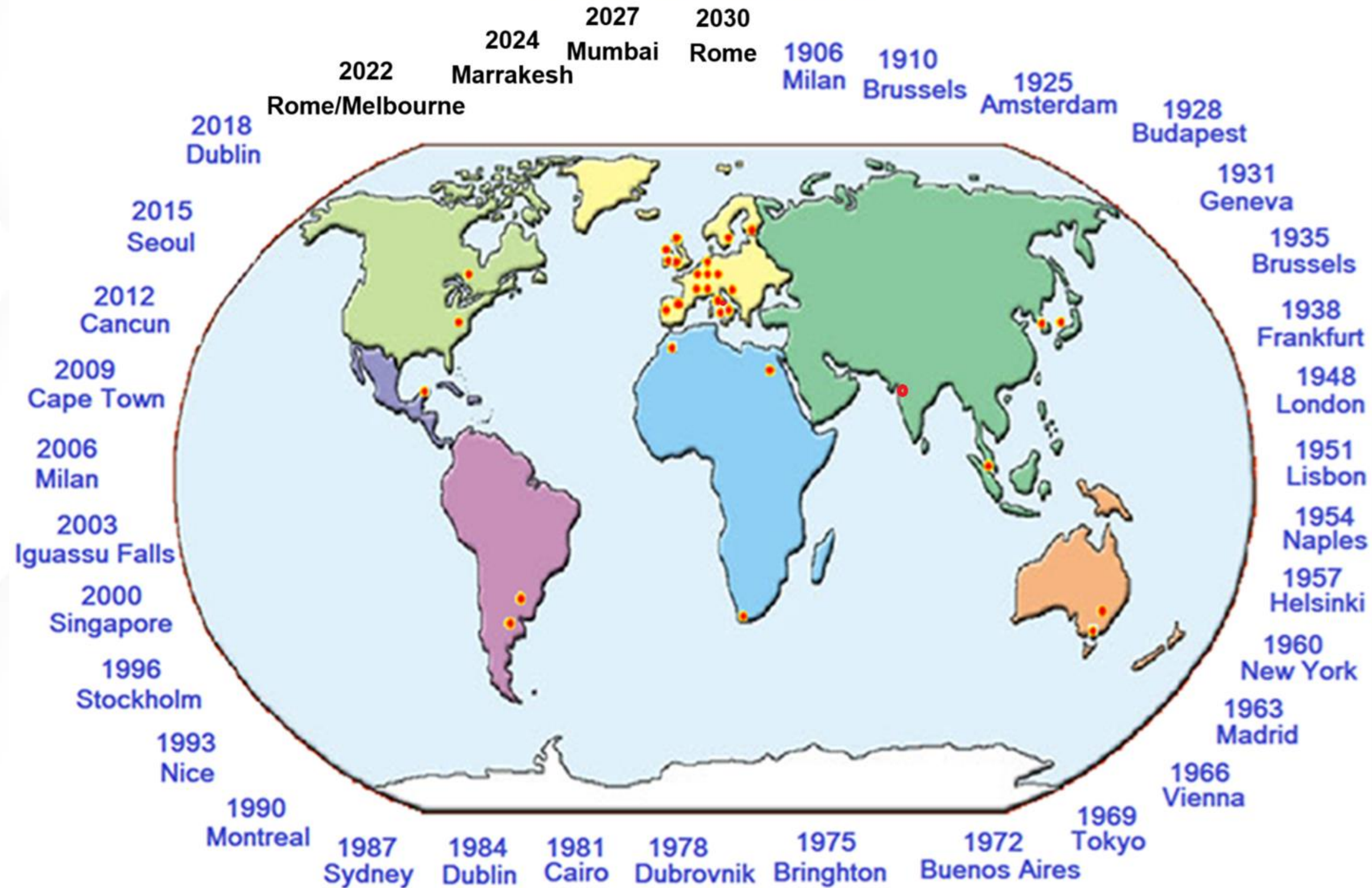
Foundation of International Permanent
Commission for Occupational Health

**ICOH provides a forum for scientific and professional communication.
To achieve this purpose, the ICOH:**

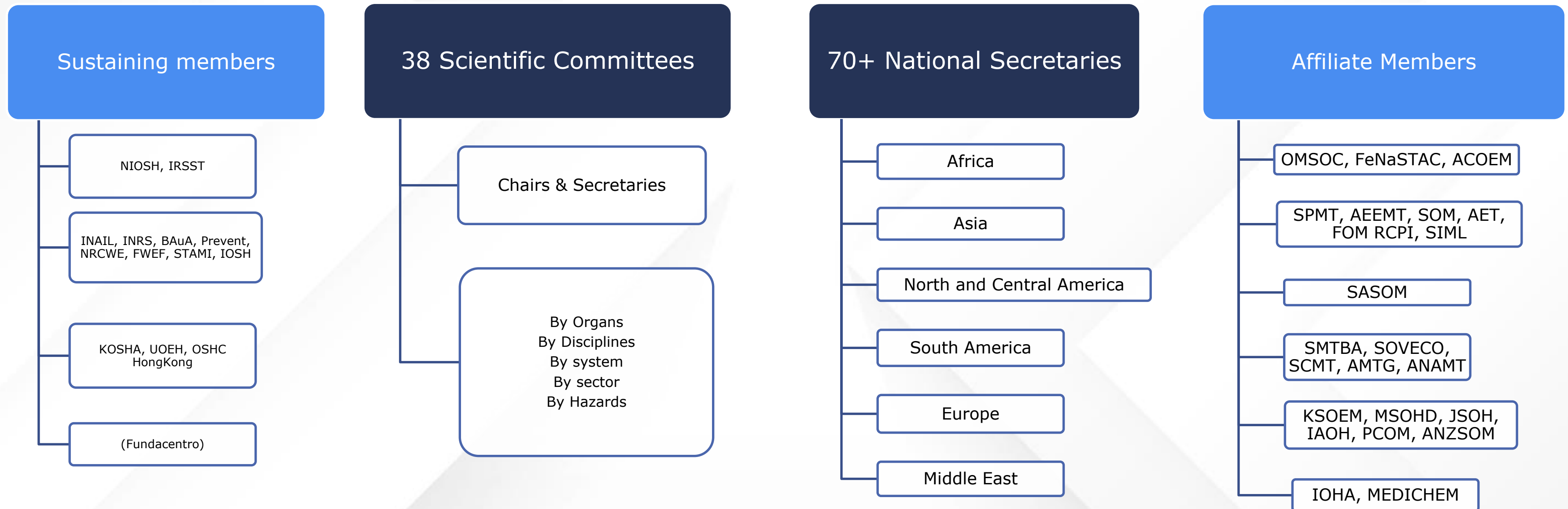
- Triennial congresses
- International conferences
- Scientific Committees/ National Secretaries
- Dissemination of information
- Guidelines and reports

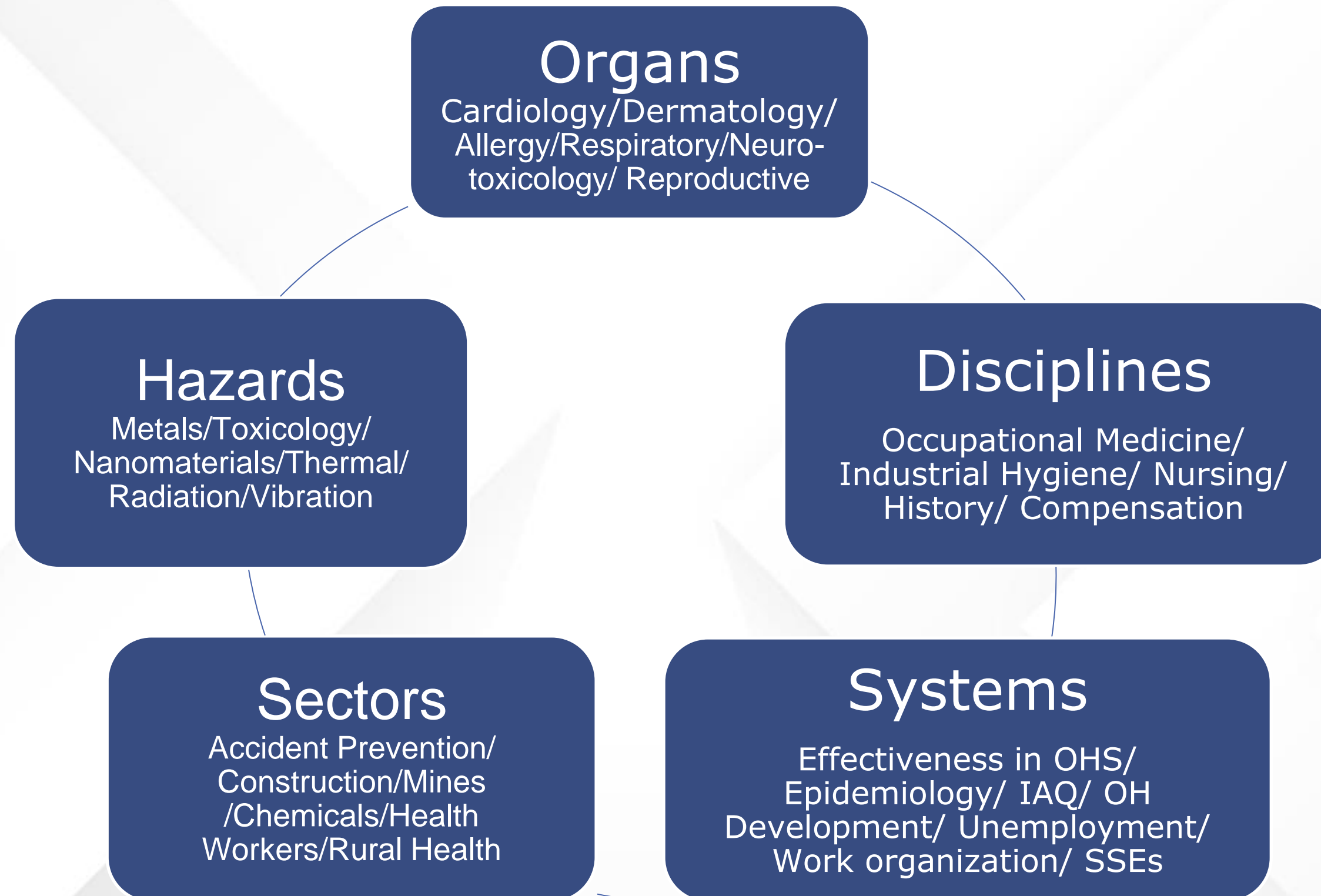


ICOH Congresses



- President/ Two Vice Presidents
- Secretary General/ 16 of the Board





Social Environment (Welfare)

- Aging/ Woman health/ Unemployment
- OH & development/ Disability
- History

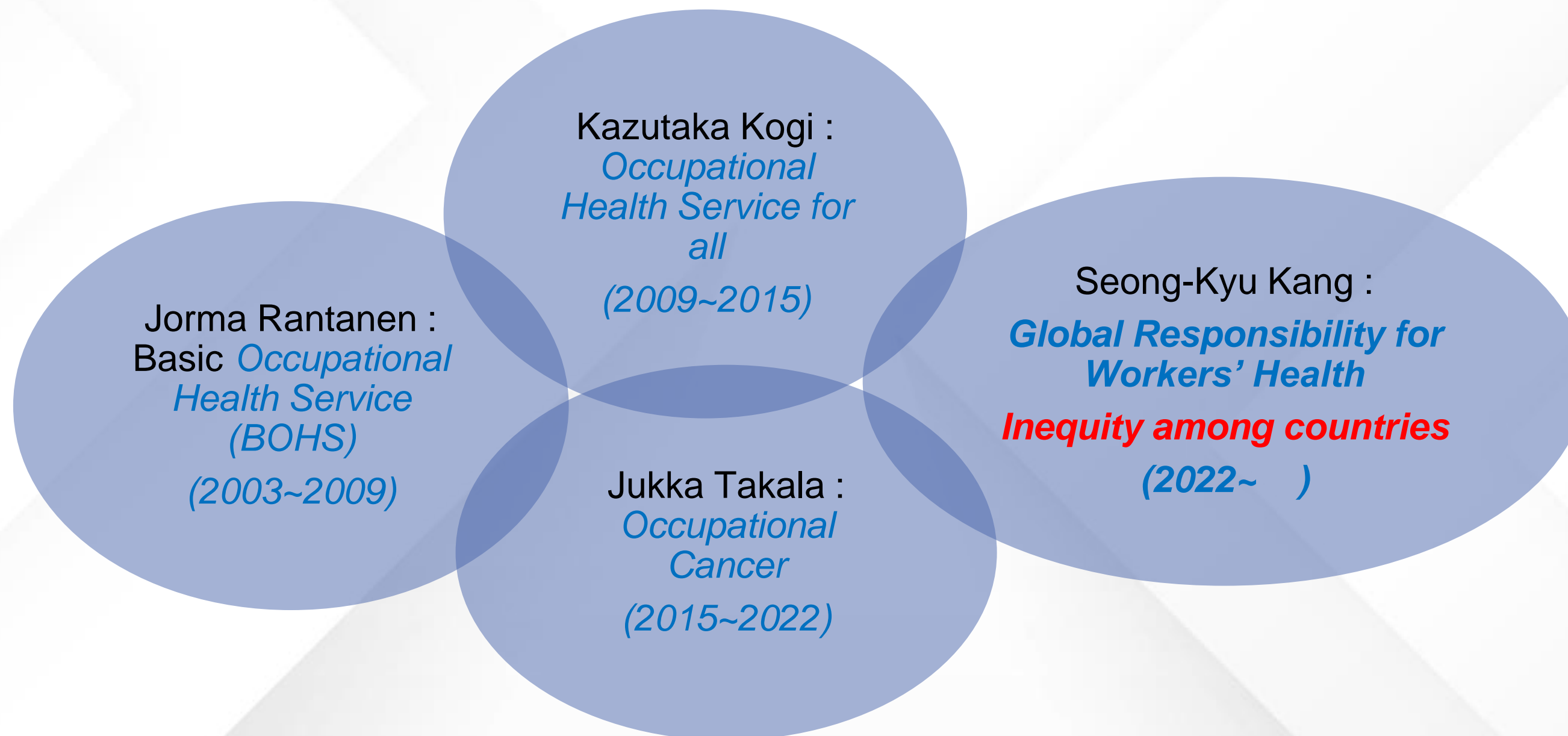
Internal Environment (Personal)

- Cardiology/EOHS
- MSDS
- Psycho-social
- Epidemiology

External Environment (Workplace)

- Accident Prevention /Emergency/toxicology
- Allergy/Respiratory/Neuro/Derms/reproduction
- Mining/Construction/Health care/IAQ
- Chemical/metal/radiation/thermal/nanomaterials

ICOH Strategy for last two decades





- Occupational health risks have spread throughout the world.
- The concept of occupational health that you have in mind may differ from what others think.

- Occupational health can be improved with a strong social security system.
- Collaboration among Occupational health professionals is essential.

Summary



Economic Development

- Occupational health & safety (OHS) risks have spread throughout the world.
- The concept of OHS that you have in mind may differ from what others think.

Perspectives in OHS

- OHS can be improved with a strong social security system.
- Collaboration among OHS professionals is essential.

ICOH

- A Platform for sharing experience and acquiring knowledge of OHS.

APOSHO38, Thailand

<https://aposho2024.com/>