

Wholegrain: Regulations and Standard

Wahyu Purbowasito S

Center for Standard Implementation System

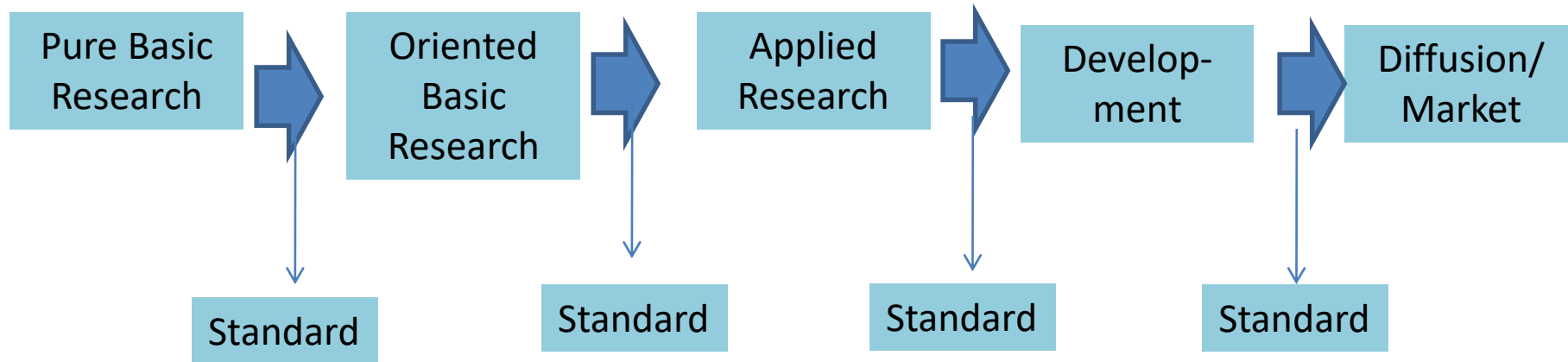
What is the Standard...

- Standard: documents that provide requirements, specifications, guidelines or characteristics that can be used consistently to ensure that materials, products, processes and services are fit for their purpose. (ISO)
- A standard (French: Norme, German: Norm) is a technical document designed to be used as a rule, guideline or definition. (CEN)

Standard and Innovation

1. Standards promote innovation
2. Standards support creation of new markets
3. Standards ensure the quality of (new) products and services
4. Standards support research
5. Standards enhance visibility
6. Standards facilitate trade
7. Standards support compliance with regulation of new technologies, products, services etc
8. Standards increase safety and environmental protection
9. Standards are universally recognized
10. Standards accelerate time to the market

Roles of Standard in research and innovation



Semantic Standard	Testing Standard & Measurements	Interface Standard	Compatibility , Quality, Variety Reducing
Function of std	Reduction of transaction cost Information cost	Interoperability Between component Savings in adaption cost	Increased quality Reduced health, safety risk <u>Interoperability</u> between products <u>Economic of scale</u> Creation of network externalities

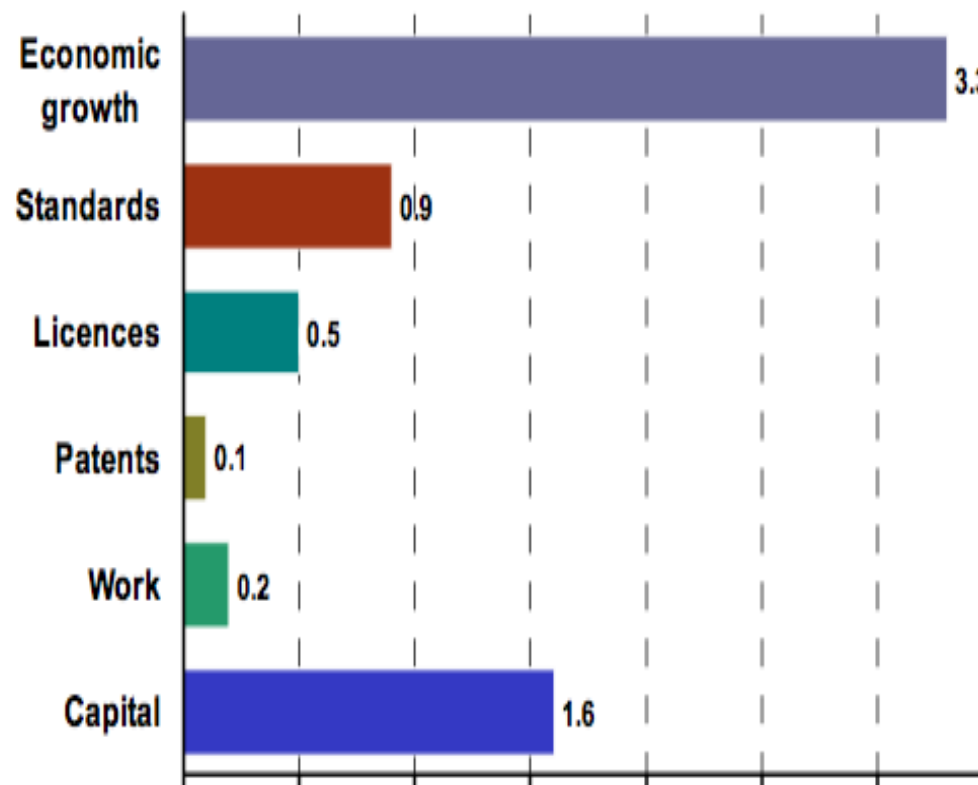
Gov ACT No 15 (Nawa Cita) (Vision and Mission Gov RI)

.....Implementation and development National Standard Indonesia consistently to:

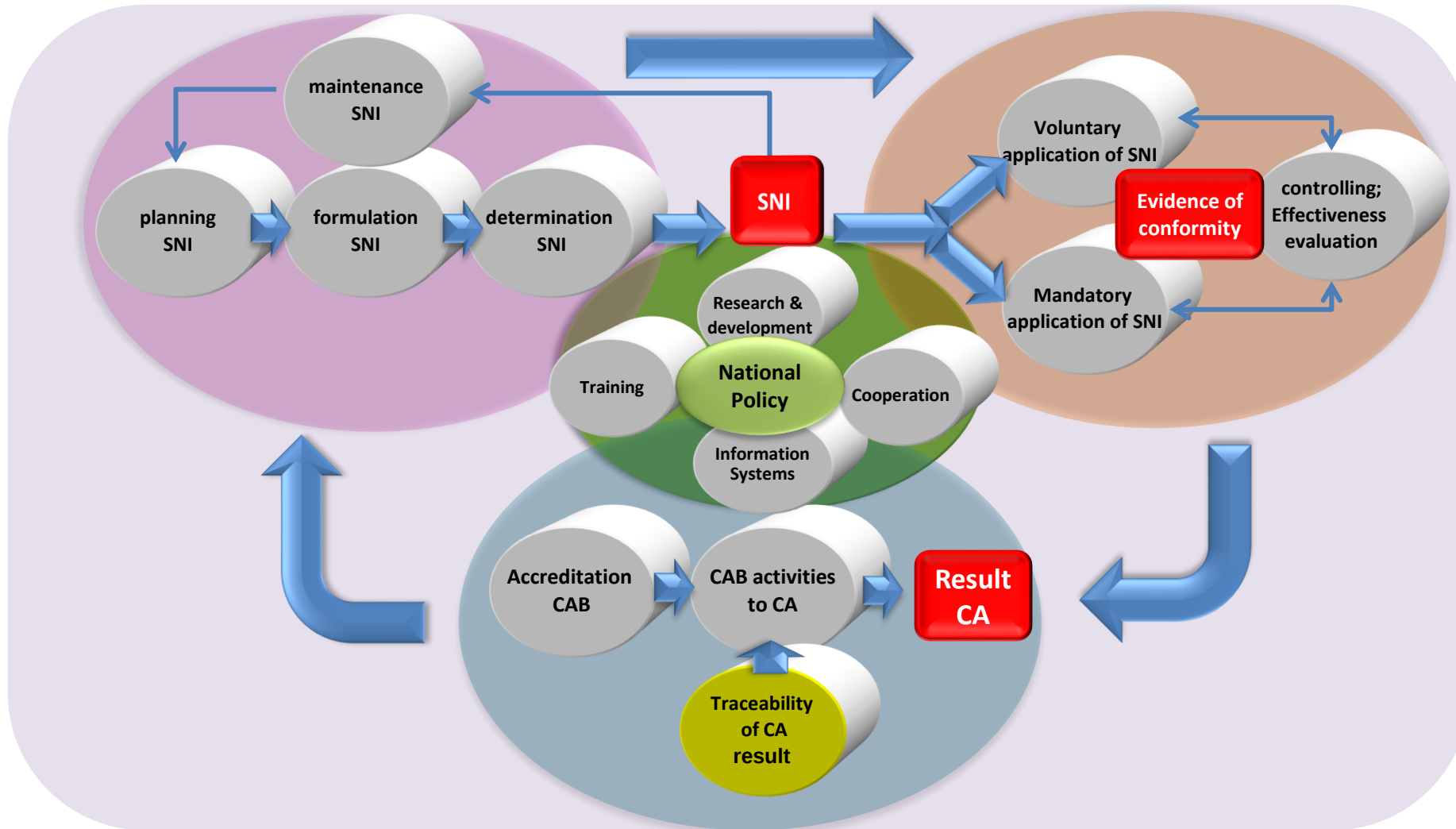
1. Strengthening of national competitiveness
2. Penetration to global market
3. Protection of domestic market toward imported product sub-standard,

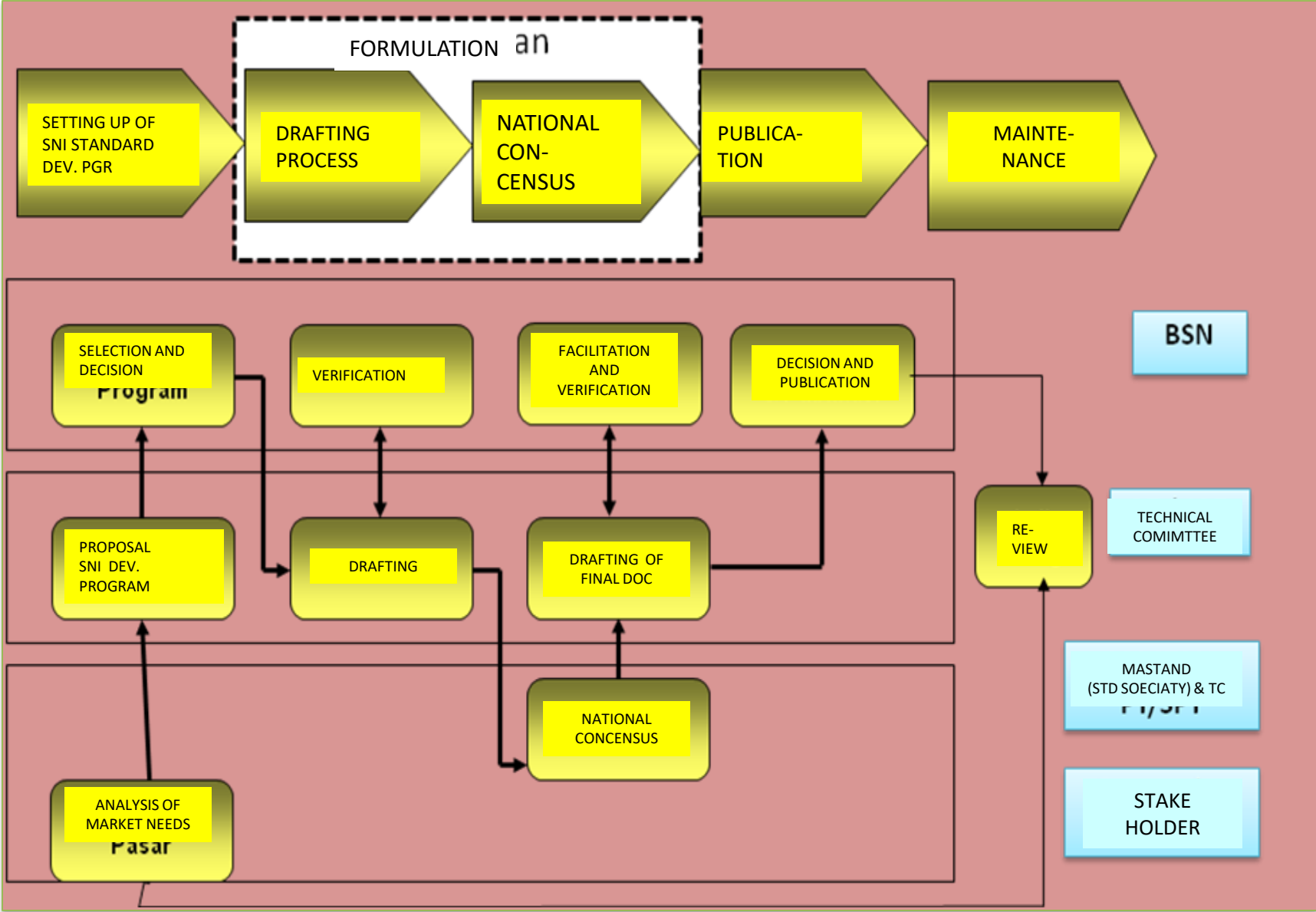
- France : GDP (2009) increase 25 %; GBR : Productivity Increase 13 % (2005); Canada (2007) : GDP increase CD \$ 62 billion 1981-2004 ; German: Contribution of standard higher than license (2000) (Rob Steele Sekjen ISO, Forum CEO NSB 2013)

BENCH MARK DRIVEN FACTORS FOR ECONOMIC GROWTH



Standardization and Conformity Assessment in Indonesia (Law No. 20/2014 and Government Regulation No.34/2018)



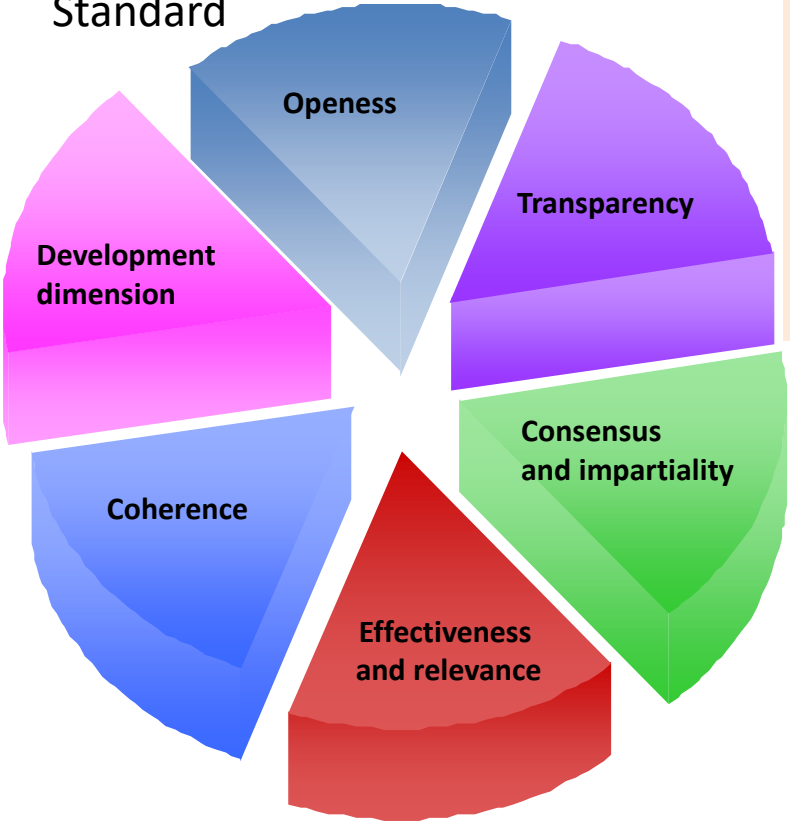


Technical Committee and Sub Technical Committee

- Consist from various sectors, eg foods and beverages, machinery, medical devices, textiles, rubber etc
- More than 140 TC/SC with more than 1500 expert from 4 stake holders (regulators, producent, consument, academics)
- More than 20 TC/SC related to foods, beverages, methods for foods products

DEVELOPMENT STANDARD (SNI)

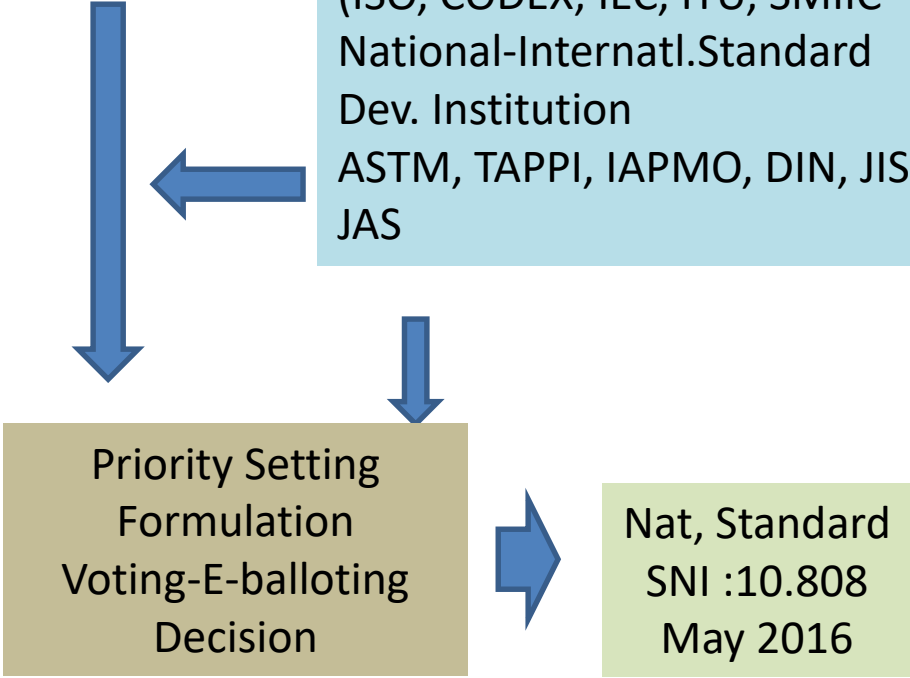
Principle of Development Standard



Adopted from the Decision of the WTO-TBT Second triennial review

Idea –Proposal for new National Standard :
Industry Association
R & D Organization
Ministry
Local Government
NGO

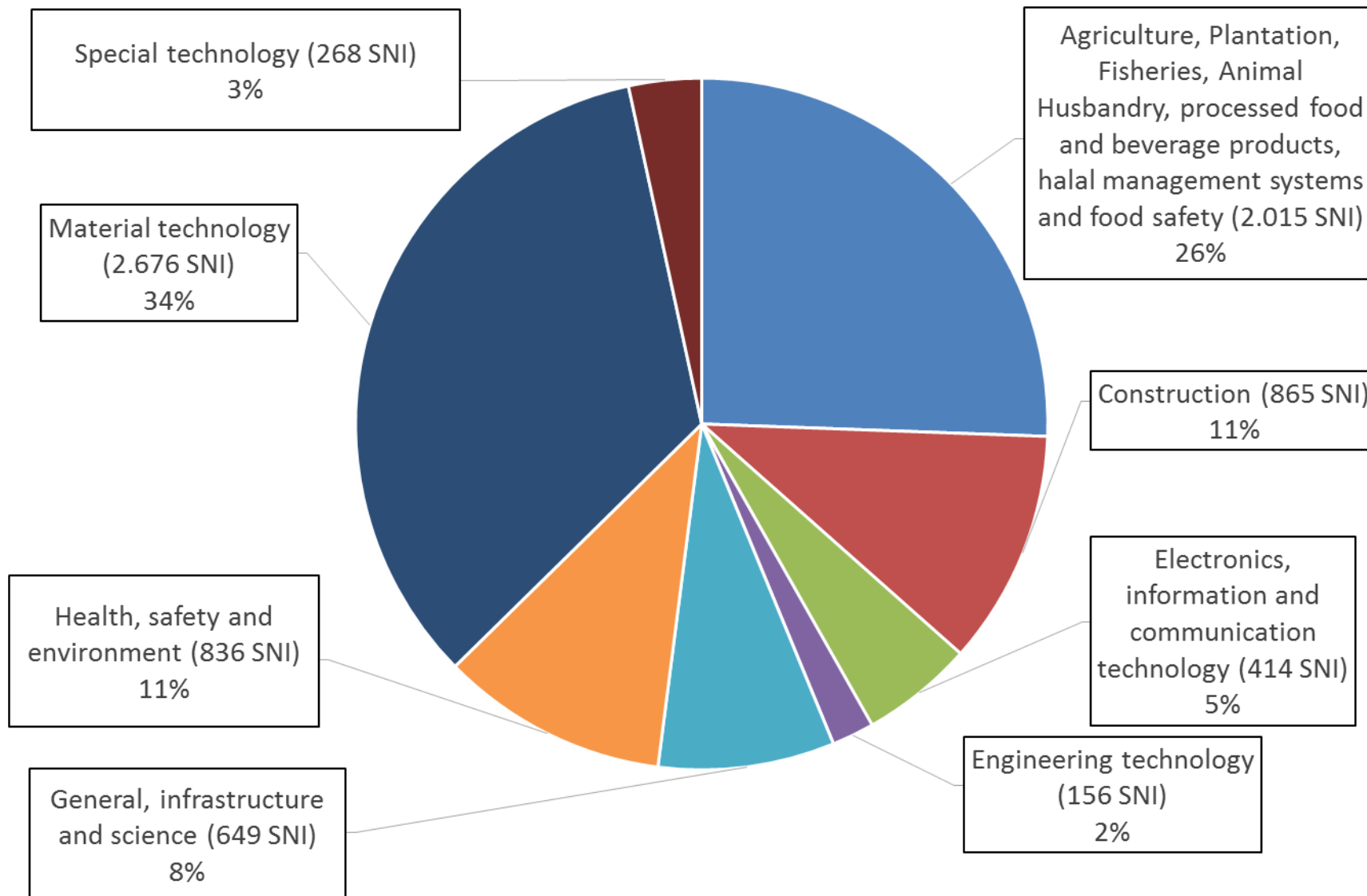
International Standard Dev. Organization
(ISO, CODEX, IEC, ITU, SMIIC
National-Internatl.Standard Dev. Institution
ASTM, TAPPI, IAPMO, DIN, JIS, JAS



Type of SNI

- SNI for Products including goods and services, methods, systems, process, personel
- It can be formulated unique, or can be adopted (either identically or modified) from other standard
- Source of adoption can be from International standard like ISO, Codex especially for foods, IEC, or another SDOs, including from another countries

Statistic of SNI up to August 2018



Standards have central role to play in assisting growth of world trading system

- For trade to occur, producers and consumers in different markets need to be able to trust the quality and safety of each other's products. There has to be compatibility between components, final goods and systems.

Standard as a basis for trading system to build the quality and safety and market acceptance

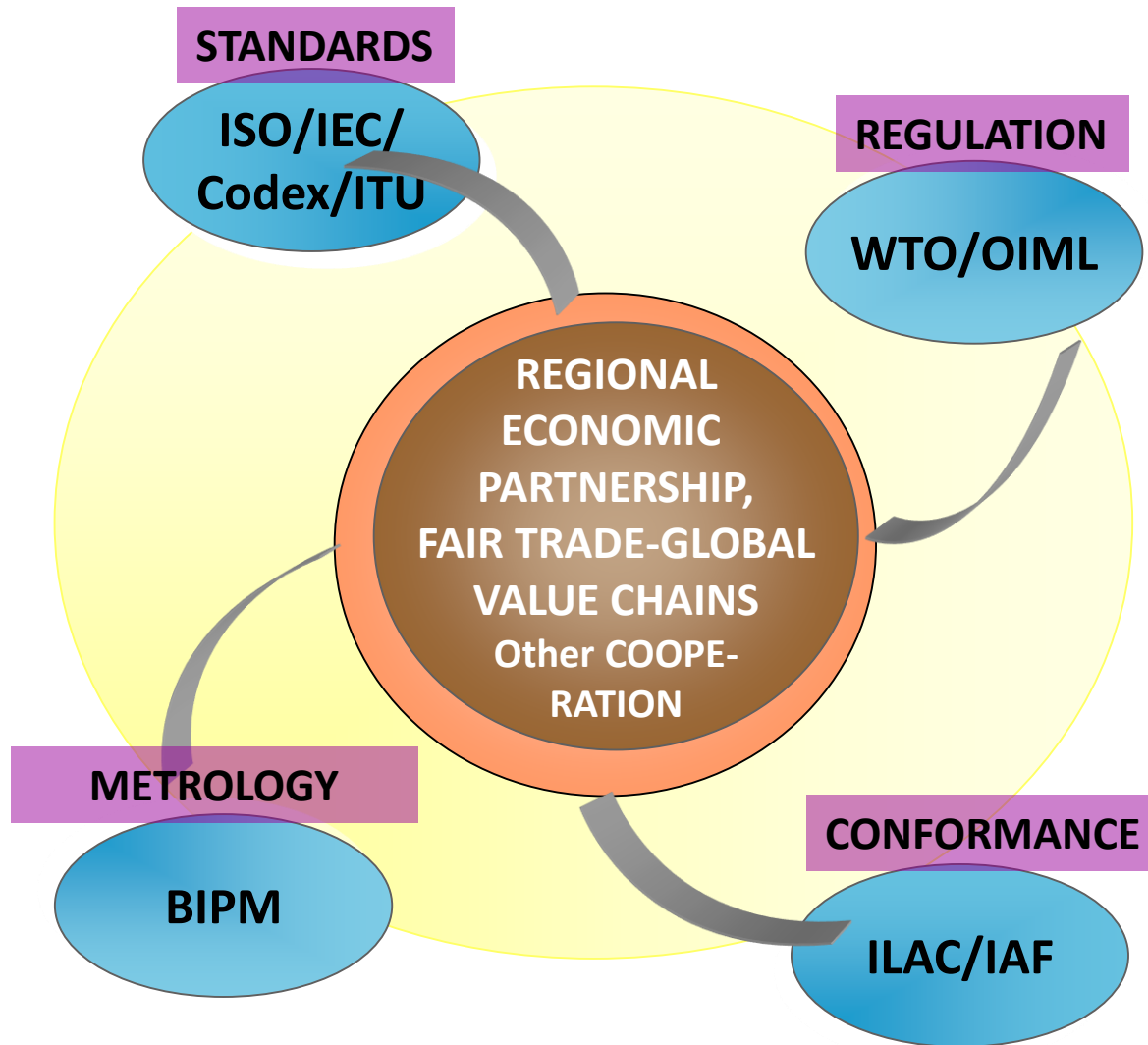
- Global integration means to reduce frictions, improve efficiency and create prosperity
- *drivers of change like new technologies and international standards.*
- Specific trade concerns has been raised in WTO due to lack of standard harmonization, unrecognized and unacceptable conformity assessment procedure.

the international standards bring to products and markets, market access opportunities and promises to be a very bright future for the world economy and for the well-being of its peoples.

- SMEs to engage in global trade

standards can help SMEs to participate in the global trade and improving market access

Global Quality Infrastructure



Standards

Specifications for a product, service, person, process or system, with which compliance is voluntary

Technical Regulations

Specifications, which may include (or reference) particular standards or conformity assessment procedures

Conformance /Conformity

Assessment) **ISO/IEC 17000:**

Demonstration that specified requirements relating to a product, process, system, person or body are fulfilled

Metrology

Establish measurement procedures and calibration of measurement instruments.

WTO based “STRACAP”

1. Standards :

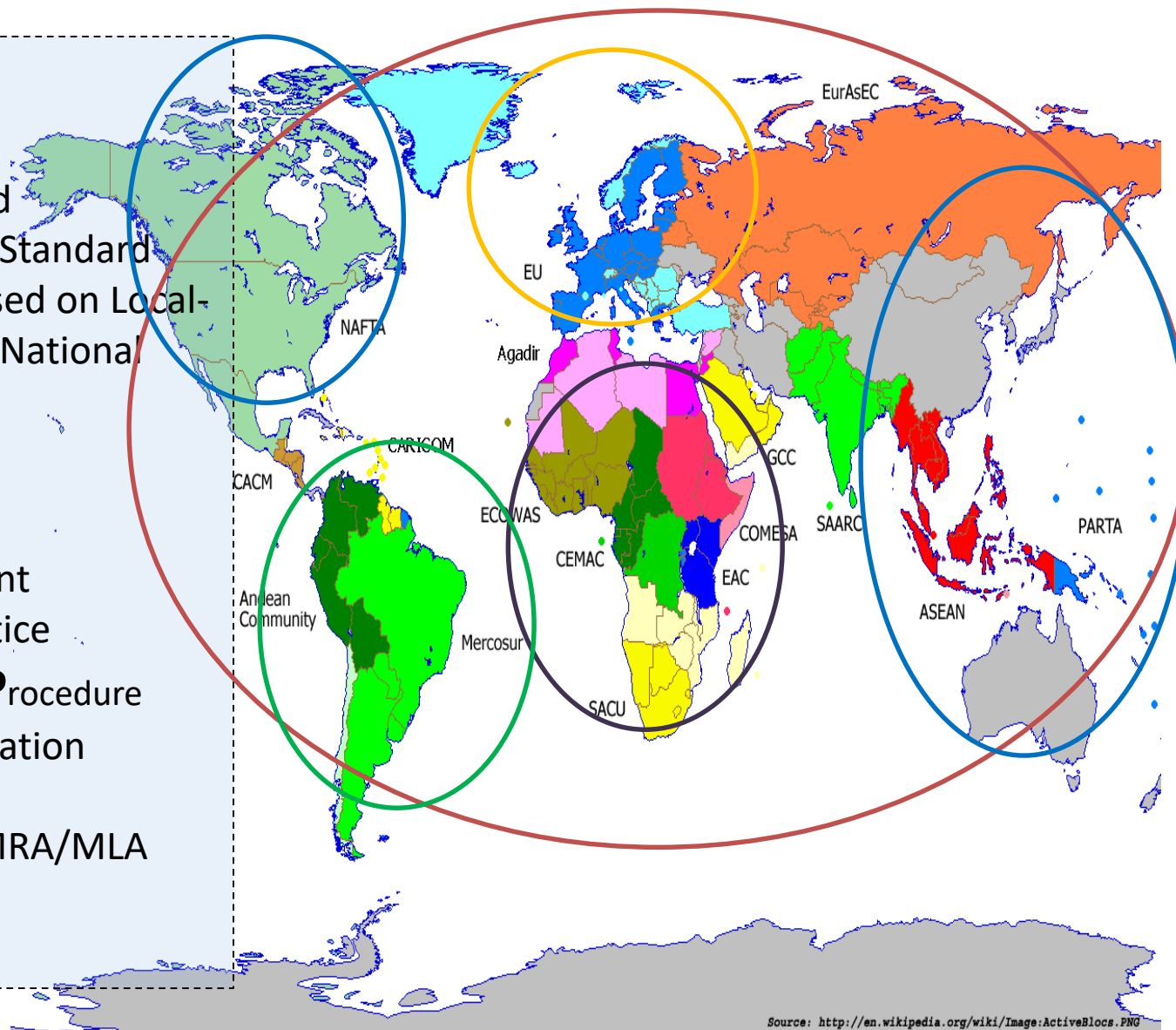
- International Standard
- Harmonized National Standard
- National Standard based on Local-National Uniqueness (National Differences)

2. Technical Regulation

- Based Standard
- Conformity Assessment
- Good regulatory Practice

3. Conformity Assessment Procedure

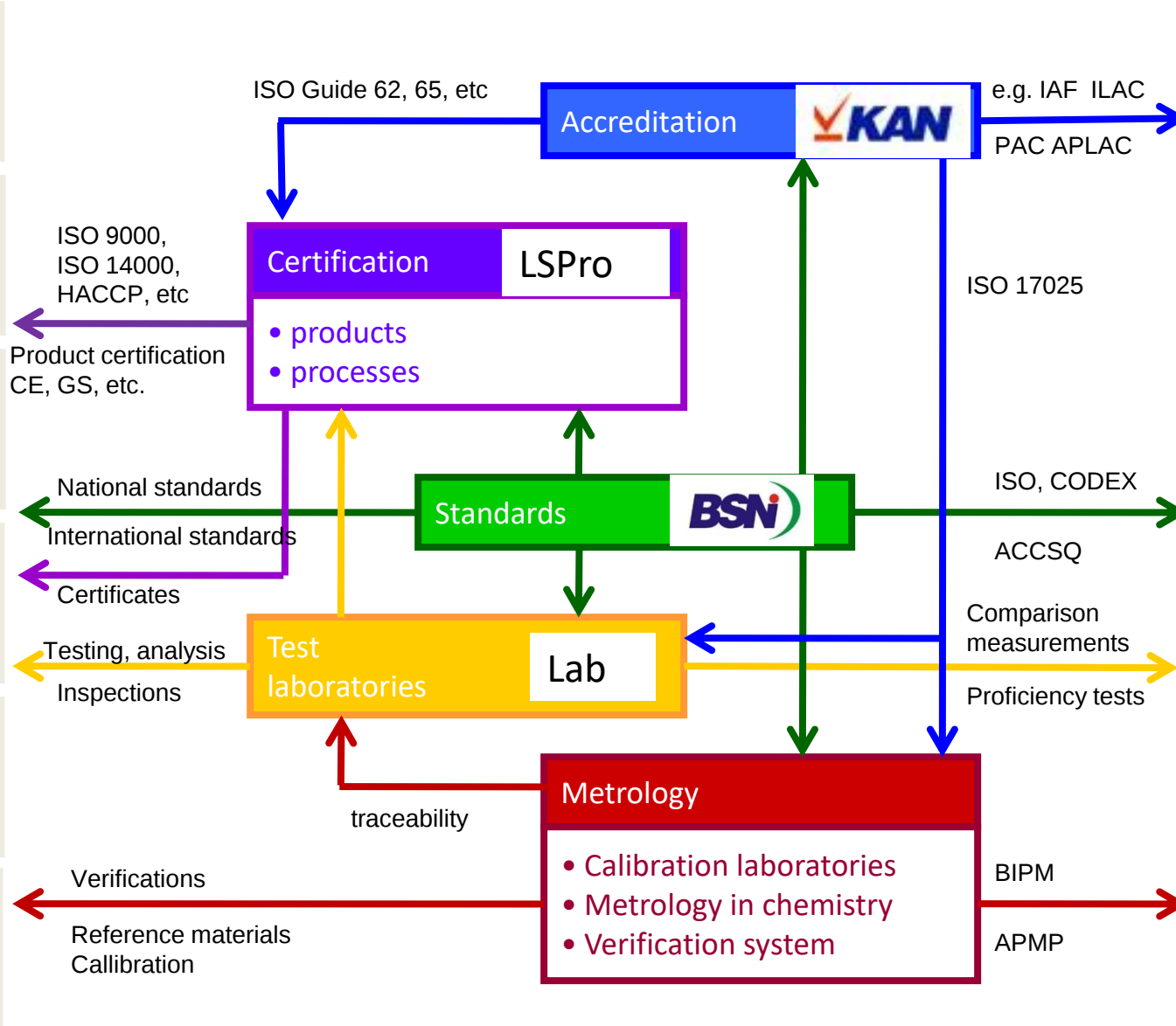
- International Accreditation Organization
- Recognition through MRA/MLA arrangement



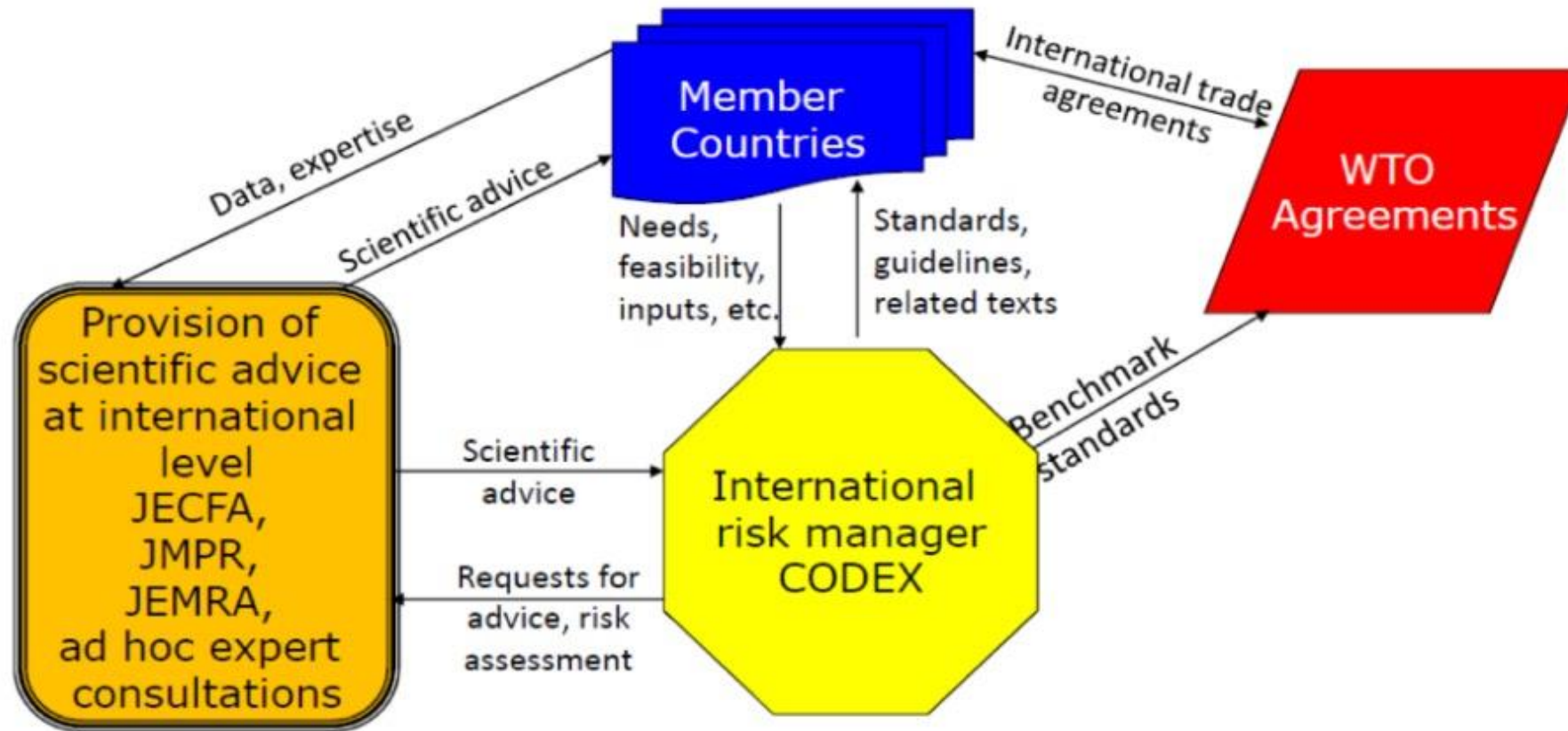
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VALUE CHAIN

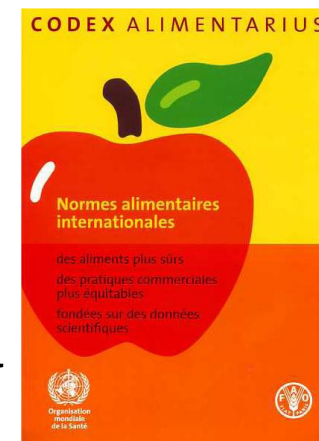
Applicable to all products and processes



WTO Agreements & Standards: Inter-relationships



- Joint FAO/WHO Food Standard Programme
- Codex food standards are international benchmarks and address the food safety needs of all countries
- Codex standards have been recognized under WTO, specifically TBT and SPS agreements
- Indonesia has become Codex member since 1971 and participated actively in developing international food standards
- Codex standards are main reference in developing national standard and regulation in food products
- BSN acts as Codex Contact Point of Indonesia



Food Standard for achieving UN Sustainable Development Goals



food safety standards as national legislation → enable local traders penetrating new markets and improve trade



By applying food standard will be able to end hunger and ensure food accessibility through safe, nutritious and sufficient food for all year round

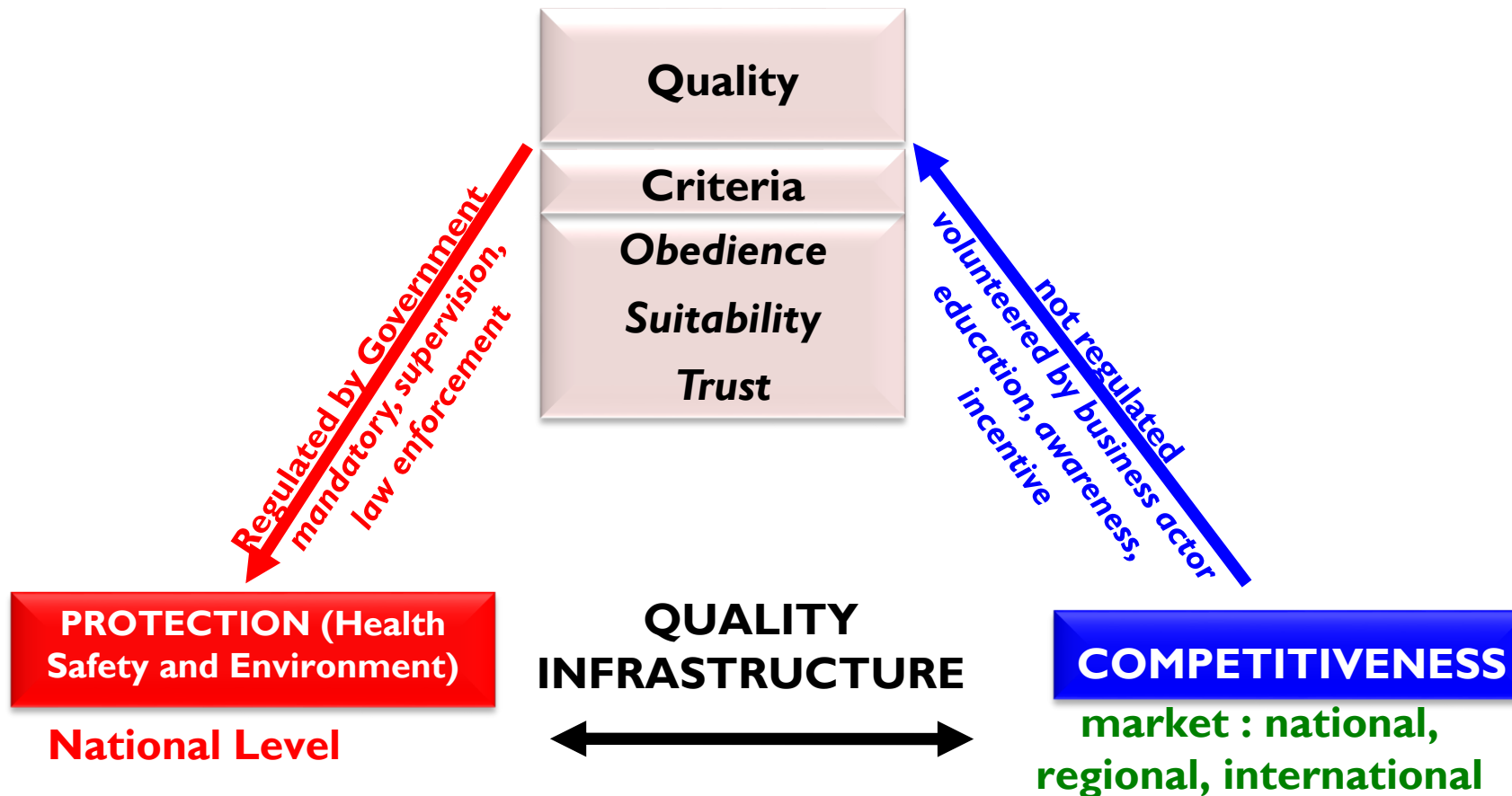


use standards as the basis for national standards for protecting consumer health

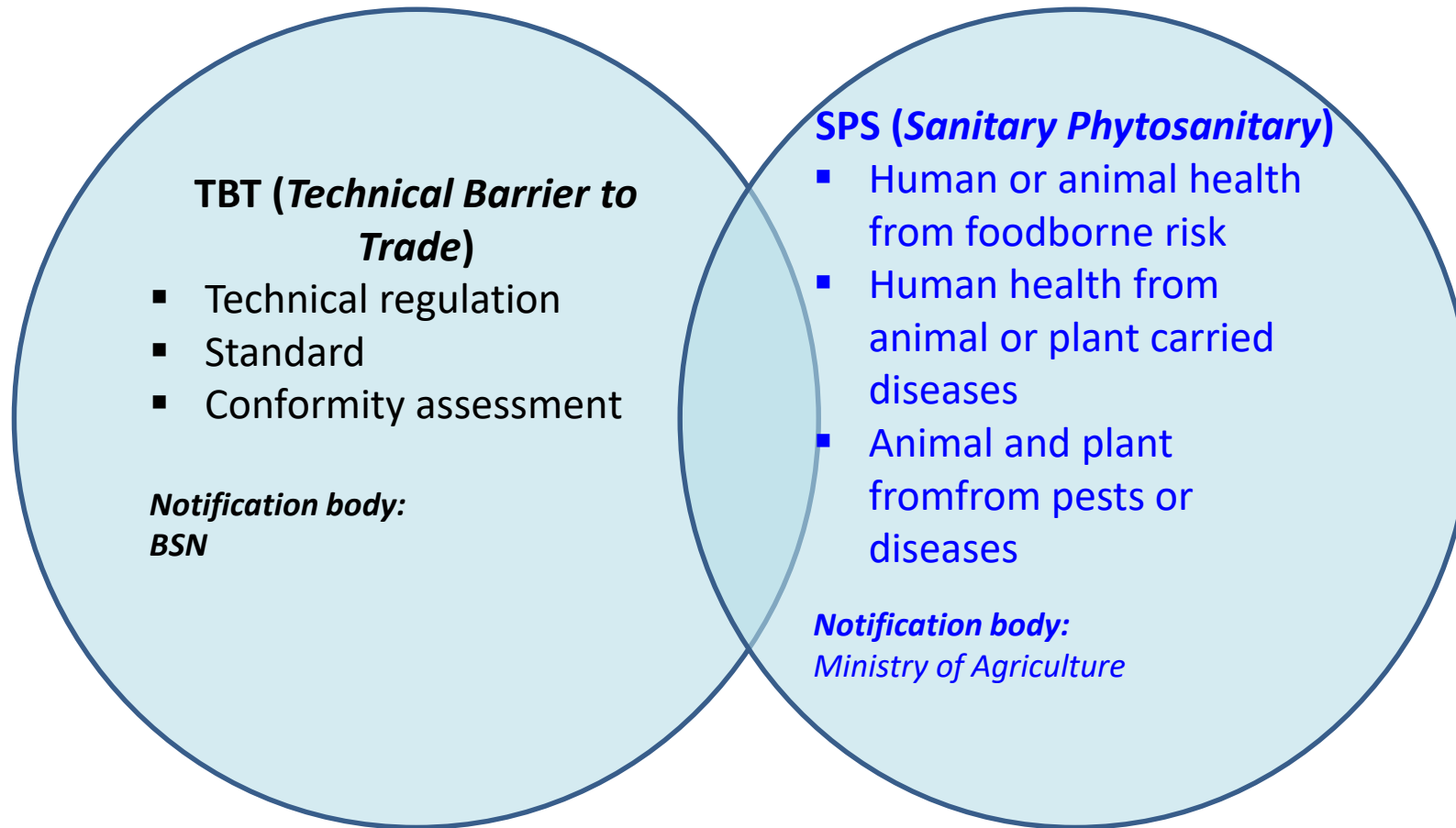


standards promote fair practices in food trade by eliminating trade restrictions and barriers to trade.

The role of the government to facilitate competitiveness through Standard



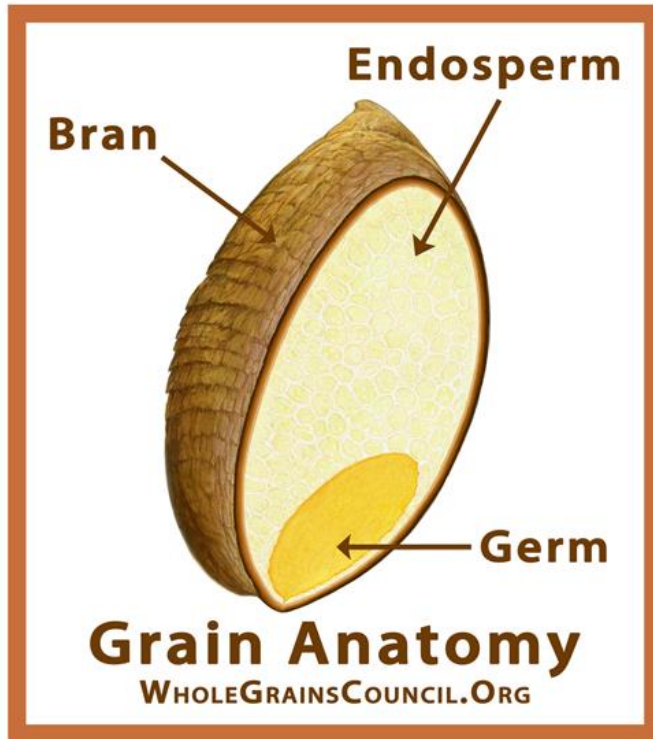
WTO Agreement on Technical Measures



List of Mandatory SNIs (up to September 2018)

No	Ministry	Number of SNIs
1.	Ministry of Industry (9 SNIs related to food products)	113
2.	Ministry of Energy & Mineral Resources	26
3.	Ministry of Agriculture	3
4.	Ministry of Transportation	14
5.	Ministry of Public Works	14
6.	Ministry of Marine and Fisheries	2
Total Mandatory of SNIs		204
Total of Mandatory of SNIs Related to food products		14

A Whole Grain Includes Everything



Whole grains or foods made from them contain all three essential parts and all the naturally-occurring nutrients of the entire grain seed.

If the grain has been processed (e.g., cracked, crushed, rolled, extruded, lightly pearled and/or cooked), the food product should deliver approximately the same rich balance of nutrients that are found in the original grain seed.

Regulations

- As Process Food Product: Regulator is NFDCA (BPOM)
- As Fresh Food Product: Regulator is DOA (Kementan)
- Perka BPOM: food category, chemical contamination, microbiology, food additives etc

Kategori Pangan 06.3 Sereal untuk Sarapan, termasuk Rolled Oats

- Sereal Untuk Sarapan, Termasuk Rolled Oats
Termasuk semua jenis produk sereal sarapan siap santap, instan dan sereal panas.
- Termasuk semua jenis produk sereal sarapan siap santap, instan dan sereal panas, termasuk rolled sereal. Contoh granola sereal sarapan, oatmeal instan, farina, corn flakes, puffed gandum atau beras, mueslis, sereal sarapan terbuat dari kedelai dan sereal sarapan yang terbuat dari tepung sereal dengan menggunakan proses ekstrusi

- Sereal Siap Santap dengan Sereal utuh (Whole Grain Ready To Eat Cereal) termasuk Sereal Sarapan dengan Sereal utuh
Sereal Siap Santap dengan Sereal utuh (Whole Grain Ready To Eat Cereal) termasuk Sereal Sarapan dengan Sereal utuh adalah produk sereal siap santap yang diperoleh dari sereal sebagai bahan baku utama dimana sebagian atau keseluruhannya adalah sereal utuh dan dapat dicampur beberapa sereal yang belum dimasak, telah dimasak sebagian, atau dimasak sempurna dengan ditambahkan bahan lain seperti : gula, malt, madu, garam, dan bahan pangan lain, dimana produk akhirnya dapat berbentuk flake, keping, batang, atau bubur.
- Karakteristik dasar:
 - Kandungan sereal utuh tidak kurang dari 25% • Kadar serat pangan tidak kurang dari 3 g/100g

SNI

- No specific SNI can be declared as wholegrain products
- Some SNI such as SNI 6128:2015 Beras (rice), others stated in quality requirements that not expressed wholegrain
- Derajat sosoh: tingkat terlepasnya seluruh lapisan perikarp, testa dan aleuron serta lembaga dari butir beras
- Rice with Premium quality: derajat sosoh must be 100% (extra well milled rice)
- Contrary to the philosophy of wholegrain



- As consumer we can proposed wholegrain as special criteria for cereals including rice
- Criteria can be discussed: fiber, cereals contain, grading contents etc

TERIMA KASIH THANK YOU



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