Governance of dual-use technologies: From the international to the individual level (Part 2: The Individual level level)

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Part 1

TRANSFER CONTROLS: A BOTTOM-UP PERSPECTIVE

Company interests

- Desire to have commercial relations as free as possible
 - Maximise opportunities for technology development and production
 - Maximise profit generation through sales
 - Minimise cost and impediments that could increase cost
- Transfer controls
 - Interfere with free commercial relations
 - Restrictions on customer selection
 - Administrative burden
 - Administrative requirements
 - Additional staff or outsourcing of administrative requirements
 - Risk assessments
 - Time delays
 - Increase cost

Nature of technology transfers

Commercial transactions

- Trade
- Assistance
 - Technology may be free for recipient
 - Nevertheless, transfer involves many commercial trade-related activities
- Business decisions
 - Mergers and acquisitions
 - Divestiture of business activities
 - Friendly/hostile company takeovers
 - Corporate breakups
- Undesired technology transfers
 - Theft
 - Propriety information
 - Research, production, process or product data
 - Tangible technologies
 - Hacking
 - Espionage
 - Industrial espionage
 - Government-initiated espionage

Single-use / dual-use technology transfers

• Single-use military technology transfers

- Government control or involvement in the commercial transaction is standard practice
 - Important aspect of national foreign and security policies
- International agreements on trade relations allow for exceptions on general international trade rules for military technologies
 - E.g. UN Charter (peace and security provisions); GATT and WTO provisions; etc.

• Dual-use technology transfers

- Affects non-military commercial transactions
- Transfer controls interfere with free-trade principles
 - Unlike sanctions, they are rather permanent strictures
 - Require security-related imperatives
 - Often part of international weapon-control treaties or decisions by international organisations (e.g. UNSC)

Export controls & transfer controls

• Export controls

- Commercial transactions between two or more countries
- Five broad types of action
 - Export
 - Import
 - Temporary storage
 - Transit across the territory before re-exportation at a different location
 - Processing: value-adding activity before re-exportation

• Transfer controls

- Include export controls
- Also cover:
 - Commercial transactions within a country
 - Business decisions
 - Undesired technology transfers

Types of measures affecting companies – 1

• International level

- Weapon control agreements
 - Multilateral (global) treaties
 - Regional treaties
- UNSC resolutions (under Chapter VII of the UN Charter)
 - Different aspects of terrorism and crime
 - Sanctions or embargoes against states and non-state actors
- EU laws, regulations and sanctions (supranational decision-making only applicable to EU members)

National level

- Implementation legislation required by international agreements
 - Transfer controls
 - Criminal and penal law
- Implementation of agreements reached within informal technology transfer arrangements (e.g. Australia Group, Nuclear Suppliers Group, etc.)
- National sanctions or embargoes
- Other national security or strategic considerations
 - E.g. in foreign acquisition of assets or takeovers

Types of measures affecting companies – 2

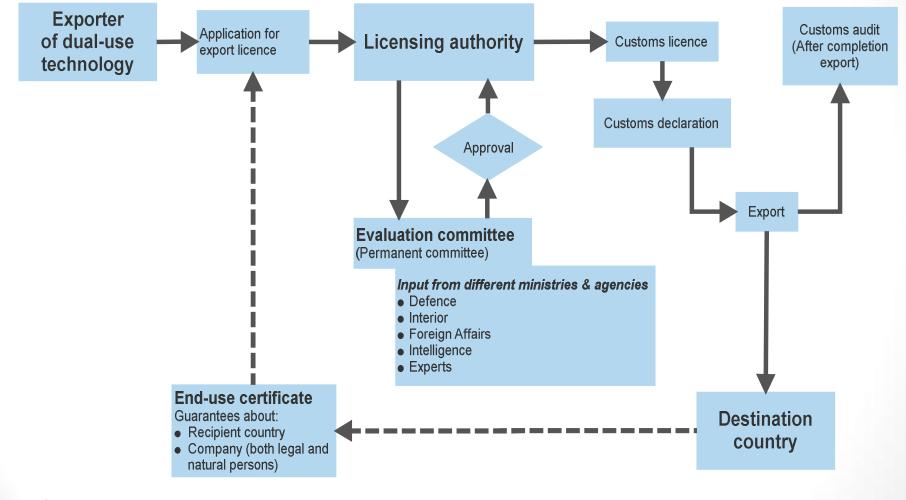
• Technical requirements

- Health and safety requirements
 - WHO, OIE, FAO, regional organisations
 - National requirements
- Environmental safety standards
 - International agreements
 - National requirements
- Transport safety
 - Air, sea, rail or road
 - Packaging standards for hazardous materials
- Customs regulations
 - ICO
 - National regulations
- Company-level requirements
 - Risk management policies (security & safety) according to national or international standards
 - Prevention of undesired technology transfers

Part 2

ORGANISATION OF NATIONAL TRANSFER CONTROLS: POLICY INSTRUMENTS

Applying for an export licence



--- Prior requirement

National regulatory framework

- Sources of the national regulatory framework
 - Treaties and binding resolutions (e.g. UNSC) regulating weapon-relevant technologies
 - International and national standards on health, safety and the environment
 - Temporary binding security-related constraints on technology transfers
 - International sanctions and embargoes (global and regional)
 - National sanctions and embargoes
- Requirements following from the implementation of the national regulatory framework
 - Governmental decisions, ordnances, directives
 - Procedures and administrative requirements
 - Technology transfer application
 - Regulatory oversight and auditing requirements
 - Transparency and reporting (including for international treaty obligations)

Enforcement of the regulatory framework

- Criminalisation
 - Legislative process of making specific acts violating the regulatory framework a criminal offence
 - Requires laws and other regulatory measures
 - Must cover
 - The various dimensions of the technology transfer process
 - The various actors and partners in the technology transfer process
- Penalisation
 - Laws and other legislative measures that identify the punishment for the criminal offences
- Enforcement
 - Empowering certain (administrative, law enforcement, etc.) agencies to
 - Monitor technology transfers,
 - Oversee the implementation of the regulatory framework,
 - Act when infringements are noted (corrective, penal)
 - Investigate and act upon discovery of malfeasance

Outreach and education

- Assistance with the technology transfer process
 - Passive assistance tools (e.g. national internet portals with legislative and regulatory information)
 - Assistance desks in relevant ministries and agencies
 - Contact points for general ´questions
 - Contact points for specific issues (e.g. export authorisation application)
- Education and training
 - Specific types of businesses
 - Staff specialisation
 - General education as part of regular courses or other educational programmes

Outreach

 Proactive engagement of relevant industries and businesses with a view of increasing their overall awareness of obligations and implementation

Part 3

ORGANISATION OF NATIONAL TRANSFER CONTROLS: POLICY IMPLEMENTERS

Ministries

- Different ministries play roles in the technology transfer process
 - Administrative accompaniment of the transfer process
 - Monitoring of regulatory conformity of the transfer process
 - Fiscal administration
 - Security assessment
 - Health, safety and environmental monitoring
 - Law enforcement
 - Etc.
- Policy development
 - Legislation
 - Policy and administrative decisions
- Interactions with
 - Parliament regarding the further development of regulatory frameworks
 - Stakeholder communities for regulatory input and outreach
 - Businesses
 - Special interest groups: professional associations, civil society, etc.

Managing technology transfers

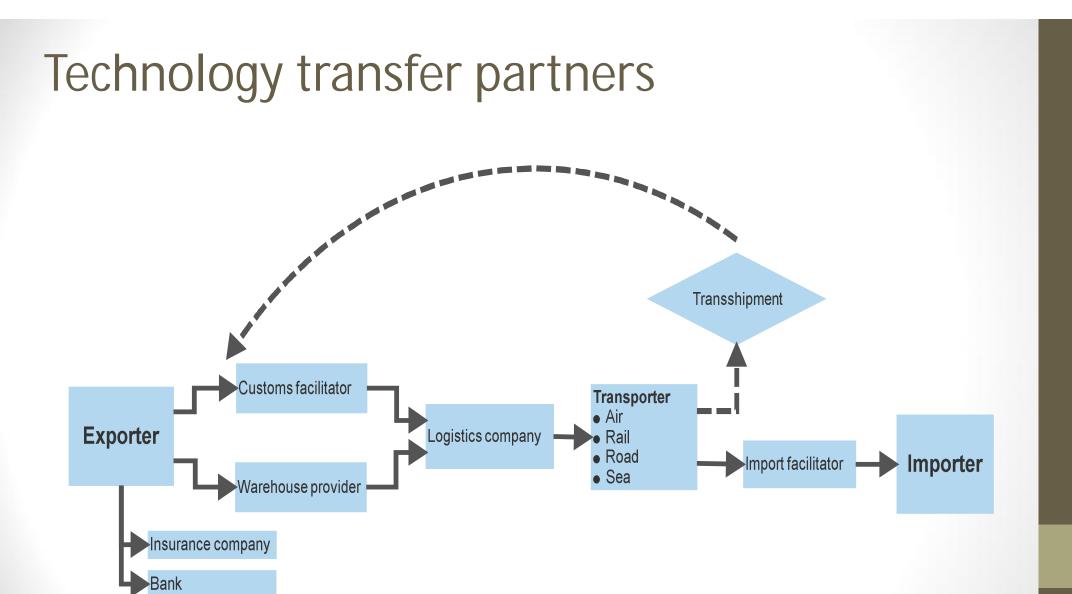
- Licensing authority
 - Issuing export licences
 - Denial of sensitive exports
 - Technical knowledge
 - Important source of information for the exporter
- Customs
 - Border controls
 - Company audits

Preventing illicit transfers

- Intelligence agencies
 - Information gathering
 - Data analysis and threat/risk assessment
 - Notification of threats and risks
- Law enforcement
 - Investigation
 - Prosecution
 - Penalisation

Part 4

ORGANISATION OF NATIONAL TRANSFER CONTROLS: ACTOR CATEGORIES



Suppliers

- Industry (manufacturing)
 - Products
 - Raw materials
 - Semi-finished products
 - Finished products
 - Processes
 - Importation
 - Processing / Value enhancement
 - Exportation
 - Internal transfers

• Services

- Intangible technology transfers
- Includes:
 - Consulting
 - Information technology and knowledge economy
 - Training and education
 - Maintenance and repairs

Facilitators

- Underwriters
 - Investors (in the industrial activity)
 - Financers
 - Insurers
- Facilitators
 - Traders
 - Brokers
 - Goods
 - Customs facilitation
 - Physical persons
 - Automated systems
 - Shippers:
 - Consignor
 - Consignee
 - Transshipment companies

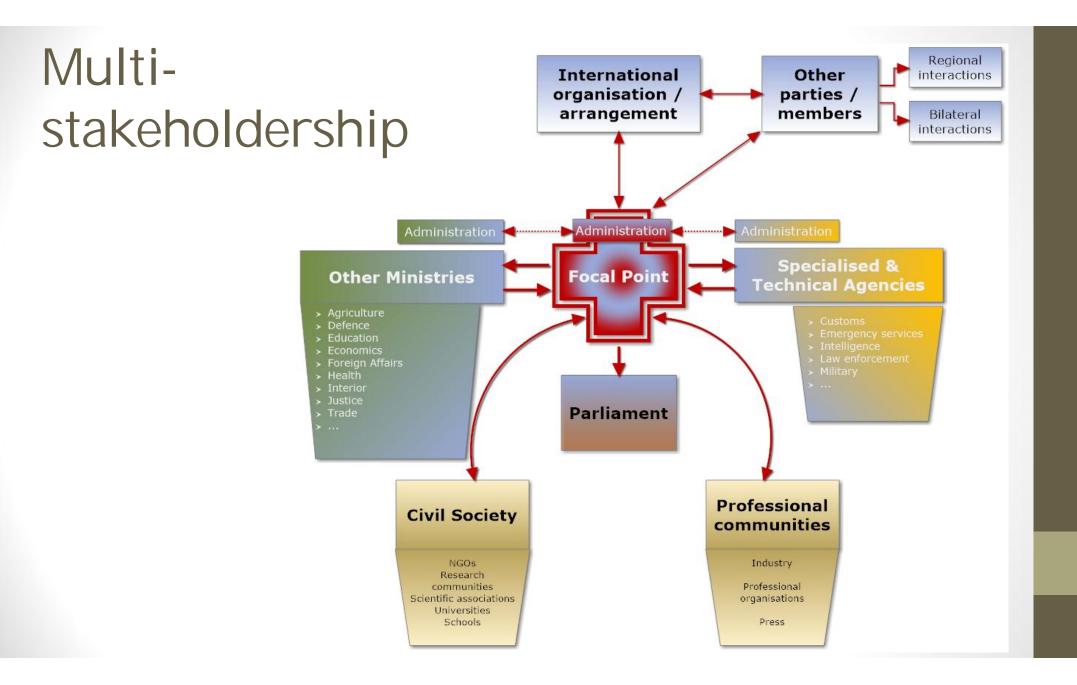
Knowledge and expertise

• Academics

- Universities
- Research institutes and think tanks
- Scientists and engineers
 - Research institutes
 - Laboratories and testing facilities
- Professionals
 - Technology experts
 - Technicians
- Civil society
 - Expertise in various areas, including assistance in treaty implementation, etc.

SUMMARY: *A COMPLEX NETWORK OF STAKEHOLDERS*

Part 5



TRENCH

Recalling where science, industry and military art converged **Challenging** entrenched positions

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