

Multi-disciplinary research in export controls

Dr Jean Pascal Zanders
The Trench

*Strategic Trade Control Research and Education Implementation in Kazakhstan
Training The Trainers Workshop – Lecture 5
Central Asian Institute for Development Studies (CAIDS)
Nur-Sultan, Kazakhstan, 18 March 2021*

Research objectives

- Preparing the course
- Supporting the course
- Setting future priorities
- Research disciplines
- Knowing how to conduct research

Part 1

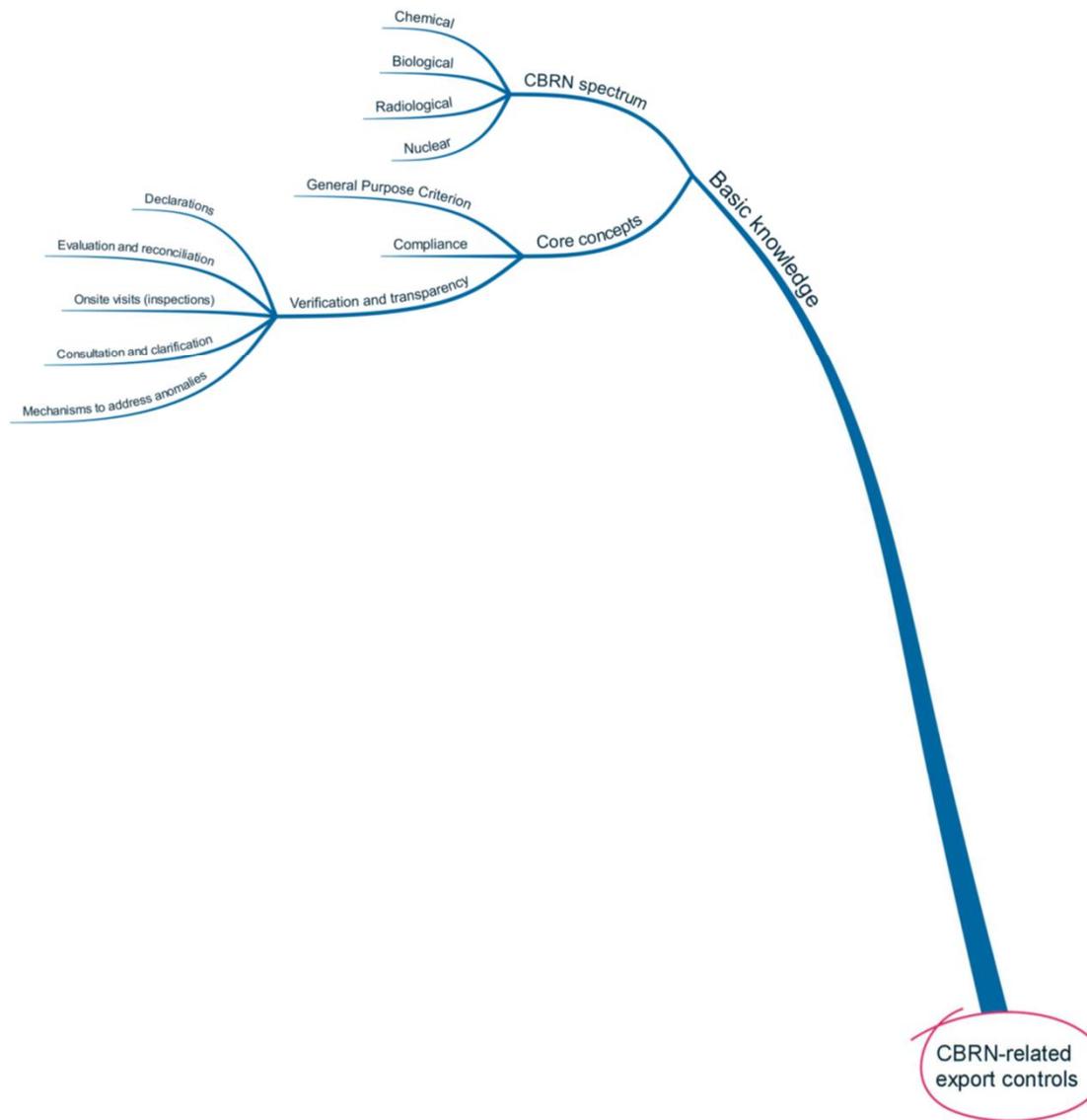
PREPARING THE COURSE

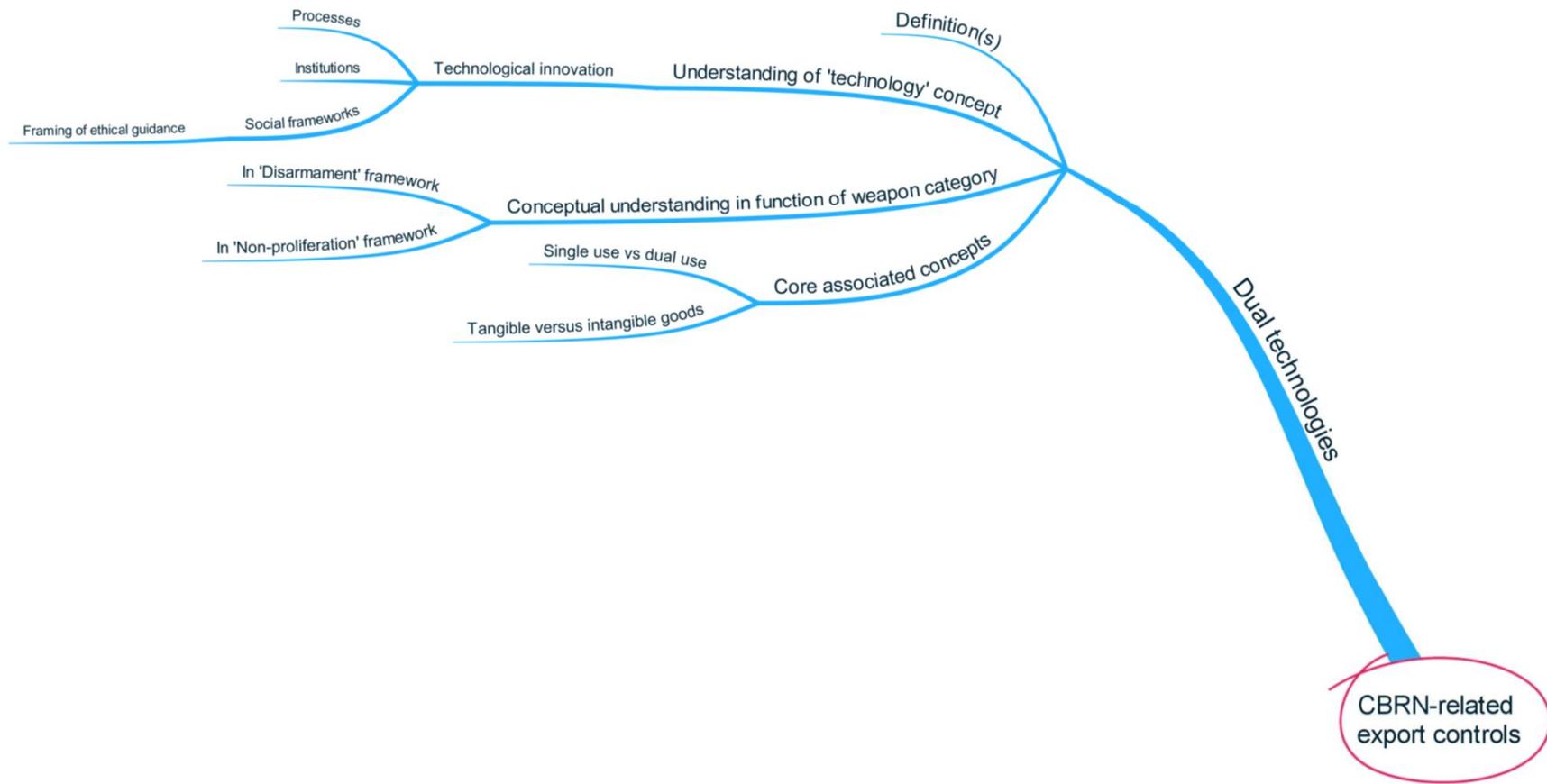
First steps

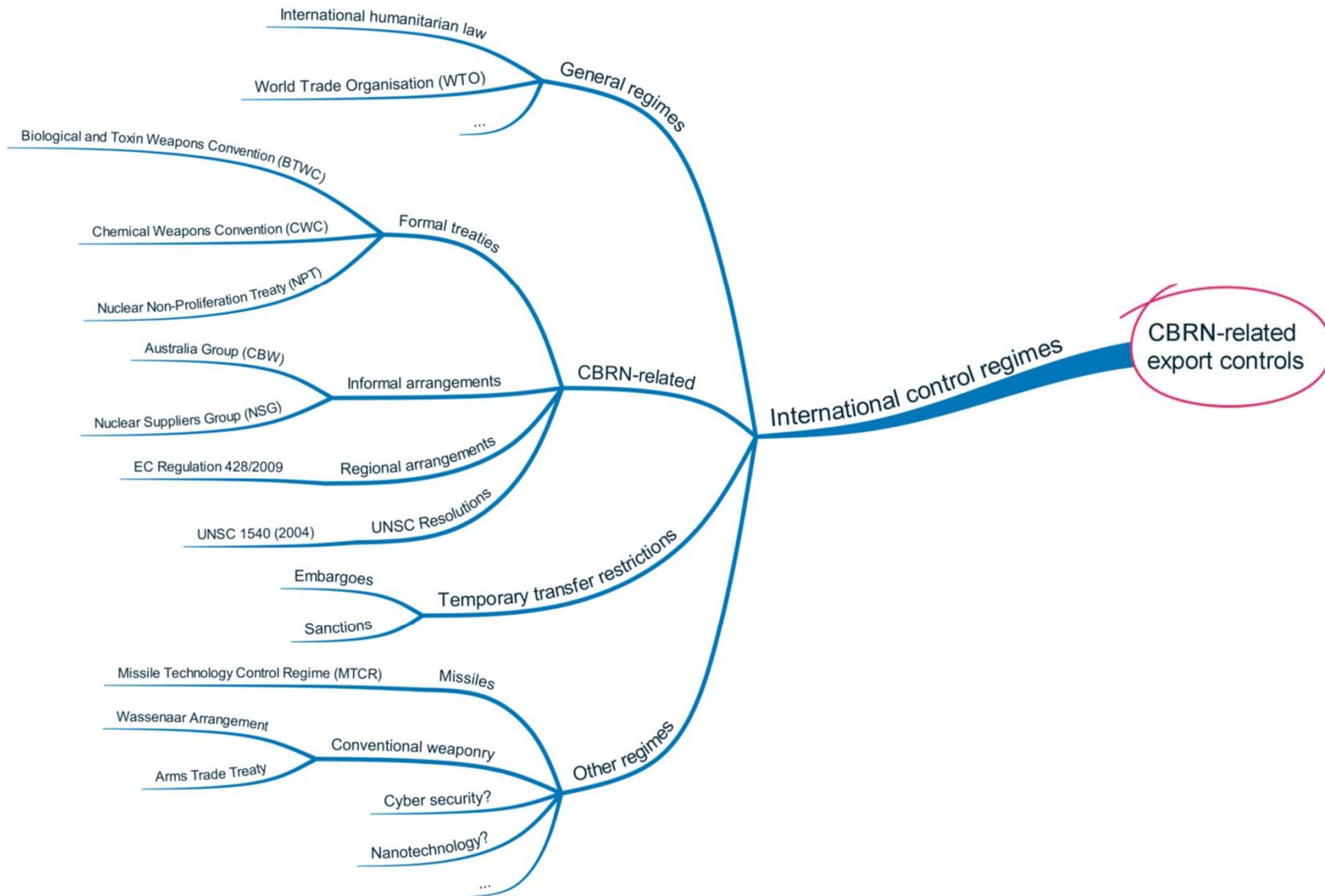
- **Defining needs**
 - What does the course want to support?
 - Who will be the primary target audiences?
 - How shall we create the demand for such a course?
- **Setting issue priorities**
 - In function of immediate needs
 - In function of available capacities
 - Research & teaching staff; equipment; research materials
 - In function of funding support

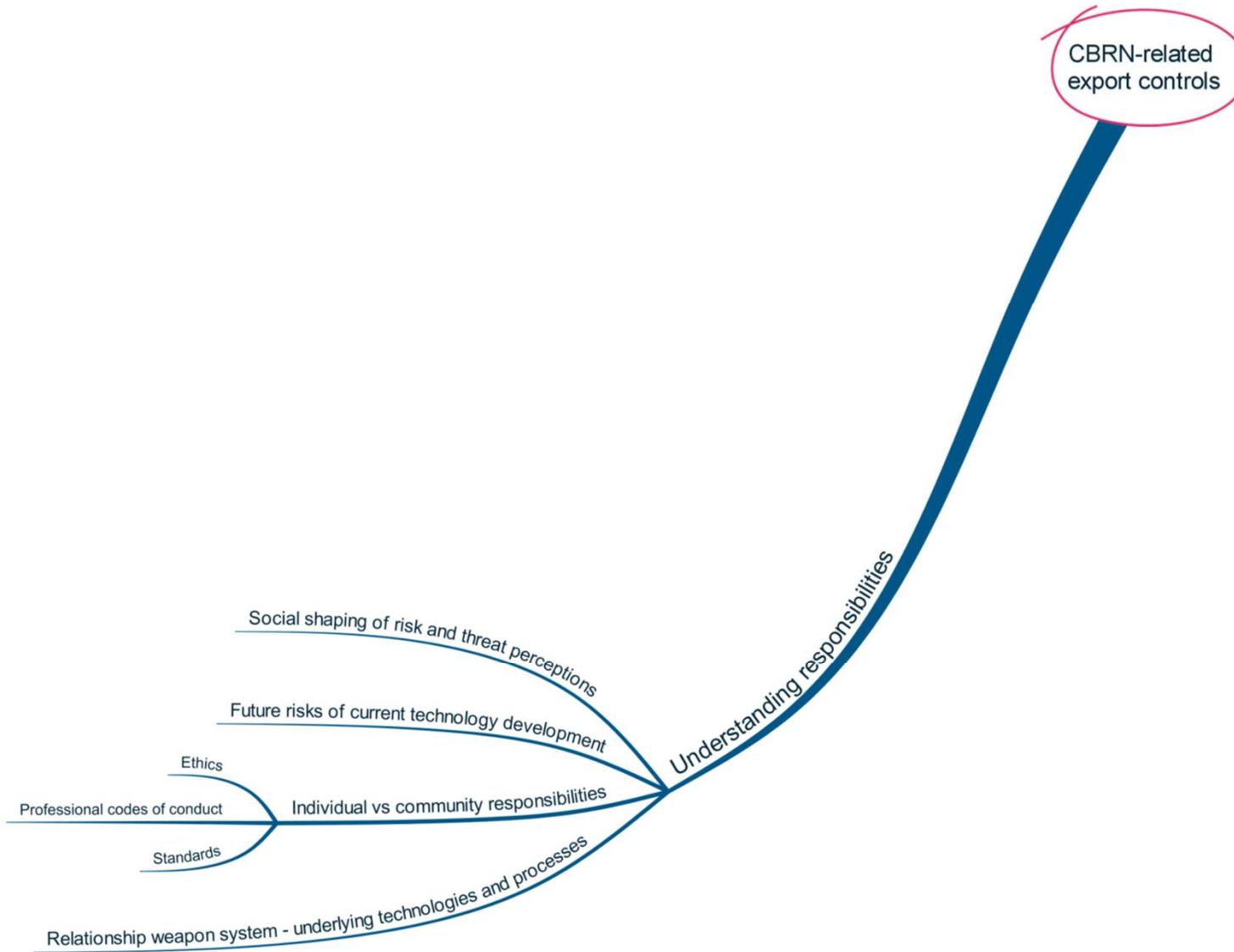
Mapping issue areas

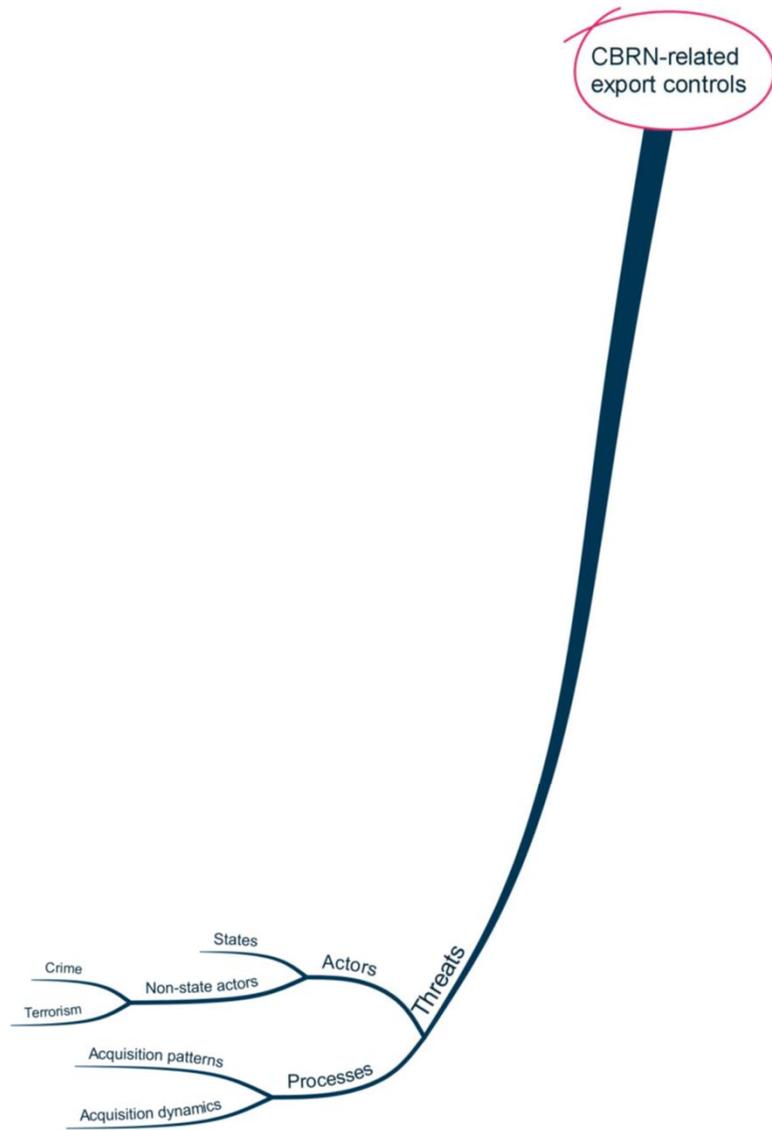
- Building a comprehensive overview of issues
 - Use of mind-mapping software
 - Allows identification of major and subordinate topics
 - Allows for reorganisation of thoughts
- Establishing linkages between issue areas
- Grouping issue areas into practical education modules

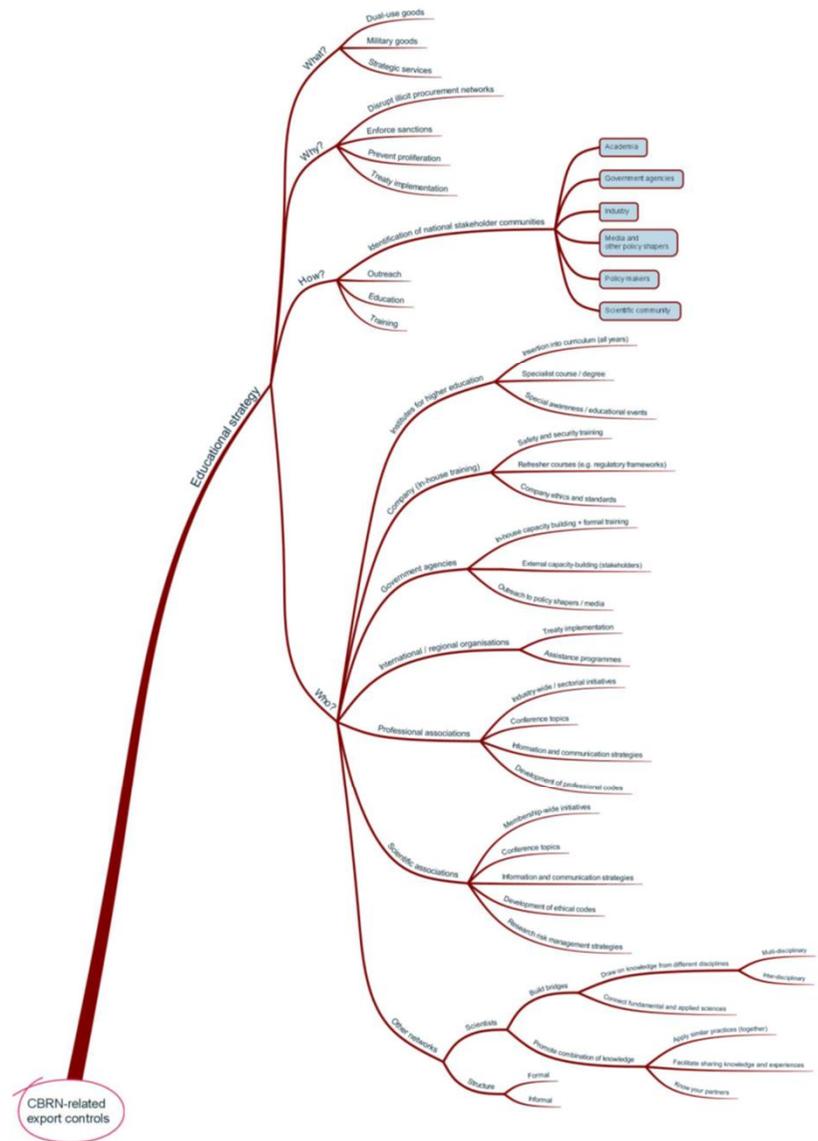


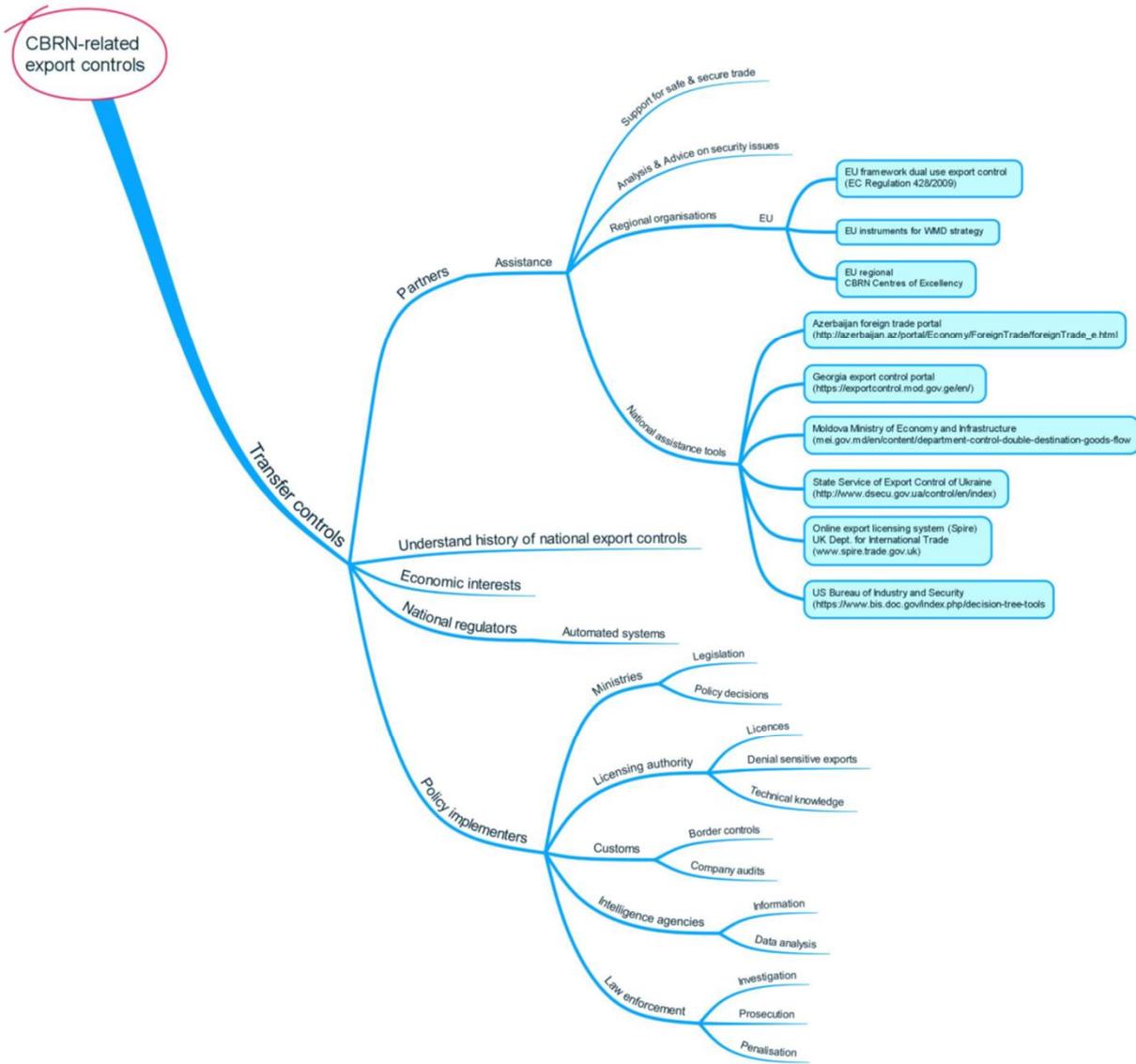












CBRN-related
export controls

Economic relationships

Economic partners

Domestic

International

Technology transfer patterns

Part 2

SUPPORTING THE COURSE

Looking for sustainability of the course

- **Building future capacities**
 - Need to acquire and sustain influx of expert capacity
 - For teaching
 - For research
- **Building course legitimacy**
 - Course must be seen as relevant by the university, agencies and funders
 - Substantive research and publications required (national & international)
- **Network building**
 - Institutional
 - Academic
- **Student support**
 - Dissertations
 - Future job opportunities

Part 3

SETTING FUTURE PRIORITIES

Types of research and teaching capacities

- **Applied activity**
 - Building national capacities relevant to governments and businesses
- **Academic competence**
 - Building internal research & teaching capacities
 - International academic participation
 - Part of network building: international recognition builds domestic legitimacy
- **Support of master and PhD levels of research**
 - Having in-house capacities attracts students of different levels
 - Professors and assistants should have expertise to guide students in relevant ways
 - Important student recruitment argument

Part 4

RESEARCH DISCIPLINES

Multi- and interdisciplinary design

- Law
 - International law
 - Business law
 - Administrative law
 - Law enforcement & criminology
- Political and social sciences
 - Norm development
 - Ethics
 - Social developments
 - Security studies
 - Government administration
 - Decision-making
- Economics
 - Trade
 - Entrepreneurship
 - Risk analysis
 - Standards
- Sciences and engineering
 - Chemistry
 - Life sciences
 - Nuclear physics
 - Risk management
- Etc.

Part 5

KNOWING HOW TO CONDUCT RESEARCH

Problem observed while teaching modules

- **Principal target audiences**
 - Students
 - Educators
 - Scientists
 - Government officials
- **Limited knowledge of**
 - Key documents
 - Information resources
 - How to search for relevant or up-to-date data in support of the execution of their responsibilities
 - How to validate their research results

Research instruction needs

For students

- **Basic principles**
 - Document hierarchy
 - Search operators
 - Searching for specific documents
 - Searching within a website
- **Framing search questions**
 - Structuring the search process
 - Developing and maintaining a search protocol
 - Retaining search focus
 - Search tools: advantages & drawbacks
- **Impact of medium used on searching**

For academics & professionals

- **Advanced search techniques**
 - Finding primary documents
 - Refining searches
 - Specialist search engines
 - Specialised search operators
 - Internet-based translation
- **Validating search results**
 - What data to rely on?
 - How to know how to rely on certain data?
 - Eliminating mis- & disinformation
 - Physical verification
 - E.g. Google Earth or Google Street



THE TRENCH

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

www.the-trench.org

E-mail: jpzanders@the-trench.org

Twitter: [@JPZanders](https://twitter.com/JPZanders)

Blog: <http://www.the-trench.org/blog/>