




**R&T in support of operational needs;
towards an integrated approach in
Defence, Security and Safety**

TNO | Knowledge for business



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TNO Facts and Figures

- Founded in 1932 by act of parliament
- Applied research to support government and industry
- Is independent of public or private interest
- Approx 4500 employees
- Approx 600ME total revenue
- Approx 180ME governmental funding
- Multi disciplinary approach

TNO is active in five core areas



TNO Quality of Life



TNO Defence, Security and Safety



TNO Science and Industry



TNO Built Environment and Geosciences



TNO Information and Communication Technology

Examples of an integrated approach military to civil

- Propulsion technology and the ignition system of the Ariane rocket
- Effectiveness of soldiers and the functioning of first responders
- Combat centres and control rooms
- Detection of explosives

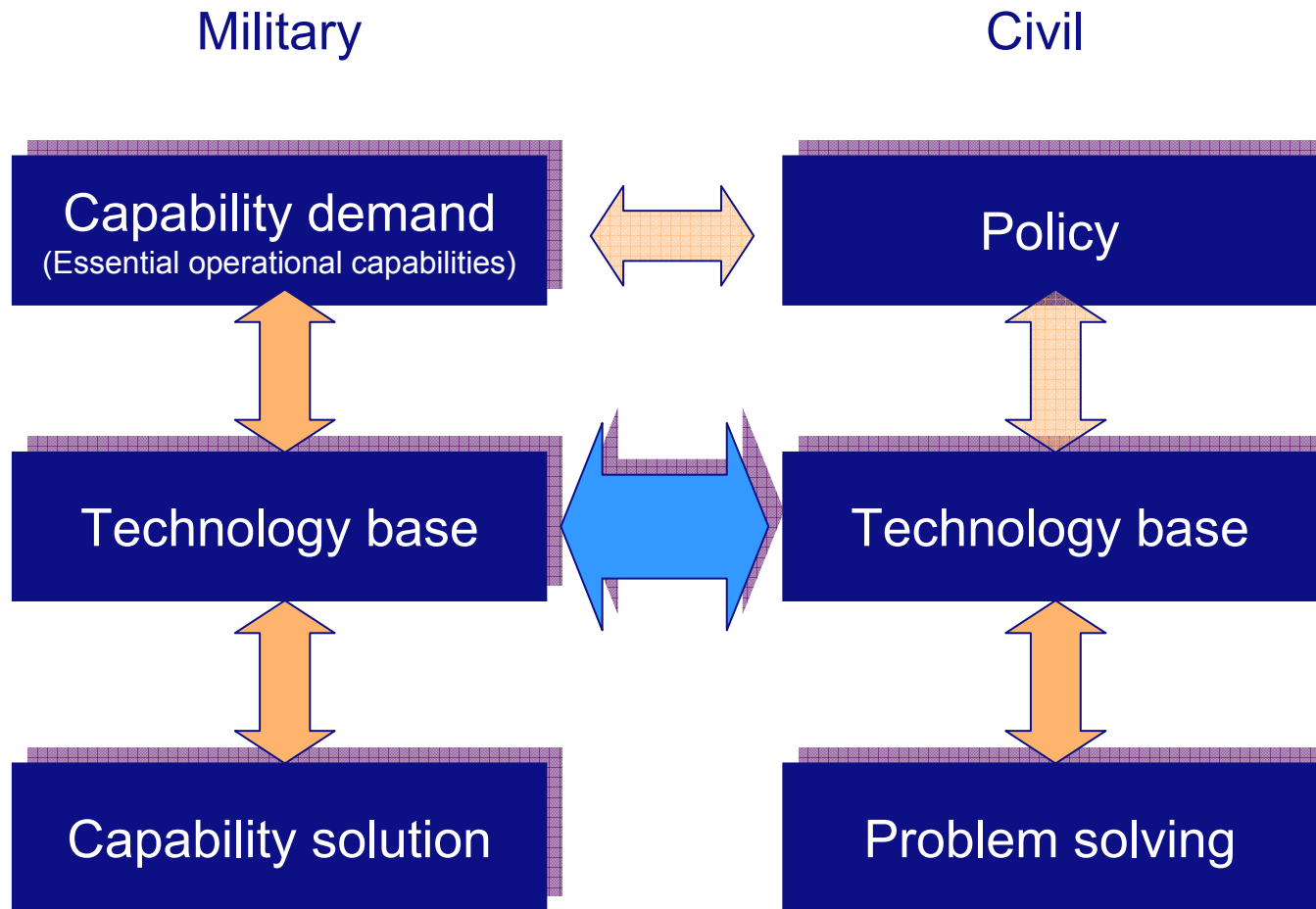


Examples of an integrated approach civil to military

- Camera surveillance for public areas and during urban operations
- Strong fibers for protection: embassies, camp sites and armoured vehicles
- New communication technologies are used for secure and reliable information exchange
- New sensor concepts for space are applied also in UAVs
- Knowledge on fireworks is used to improve storage regulations for munition



The process



Conclusion

- The combination of Defence Research and Security and Safety Research is excellent and brings fantastic mutual benefits
- It is recommended to develop a Defence programme within the FP8
- A Preparatory Action on Defence Research needed to address specific issues, e.g.
 - Customer definition
 - Accessibility of results
 - IPR