



ROGUE

STATE

HELVETIA ?

Switzerland and the atomic bomb 1945-1988

Christian Bühlmann, Erice, 23.8.2006

1 **Introduction**
Rogue State Helvetia ?

2 **Nuclear Helvetia ?**
The search for atomic weapons

3 **Non proliferation**
The reasons for a policy change

4 **Conclusion**
A model for today ?

1 Introduction
Rogue State Helvetia ?

2 Nuclear Helvetia ?
The search for atomic weapons

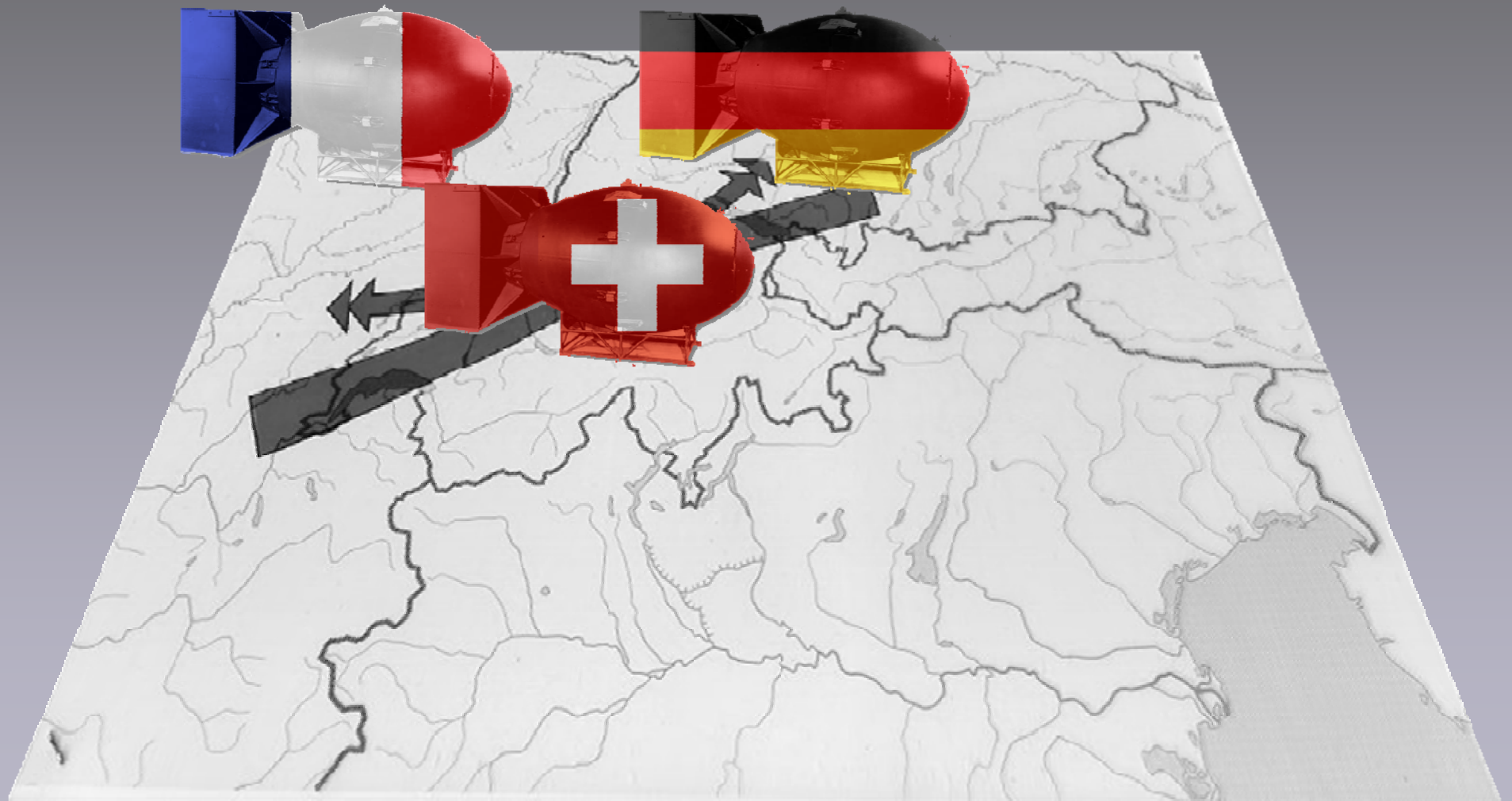
3 Non proliferation
The reasons for a policy change

4 Conclusion
A model for today ?

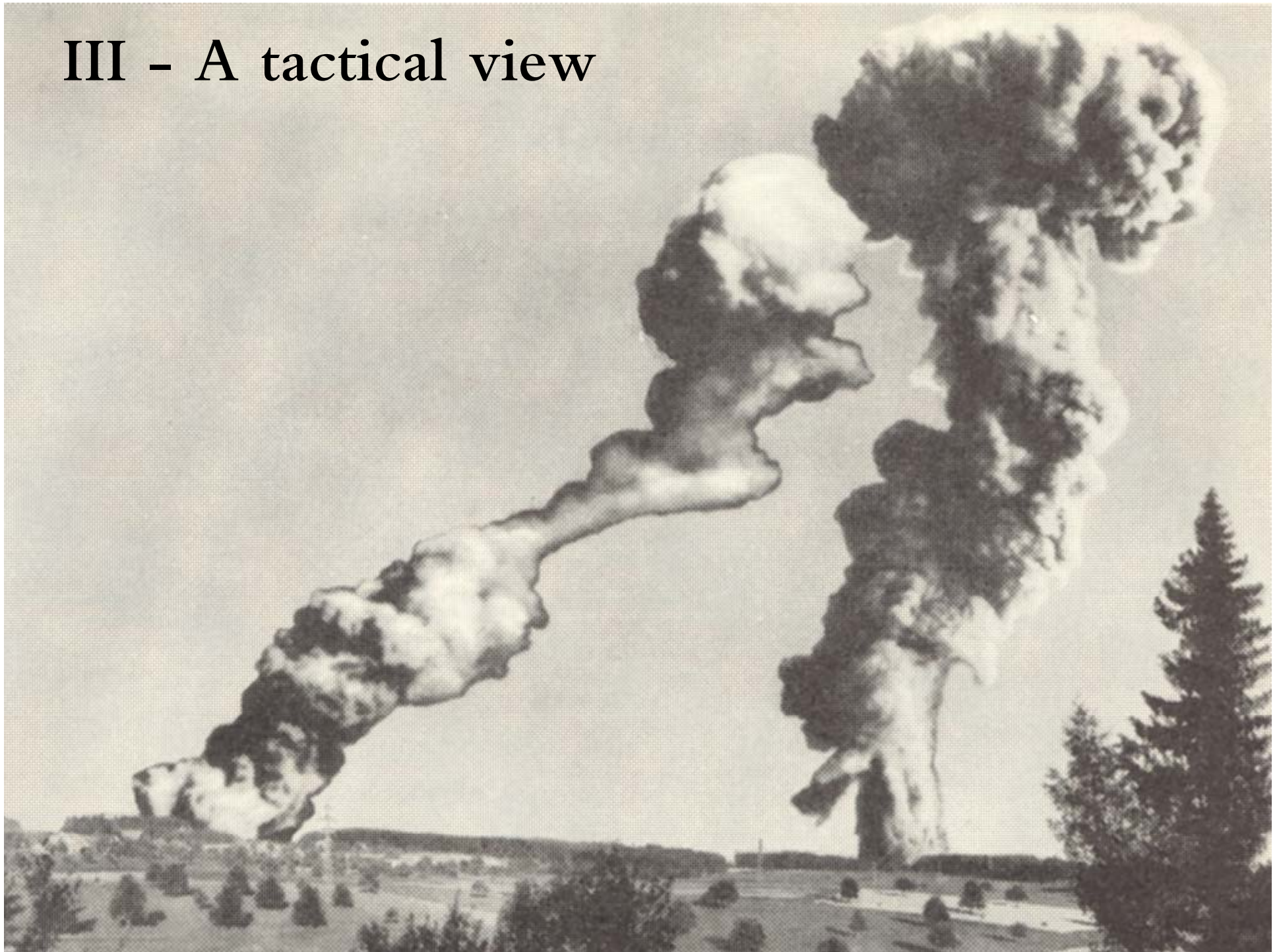
I - A strategic view







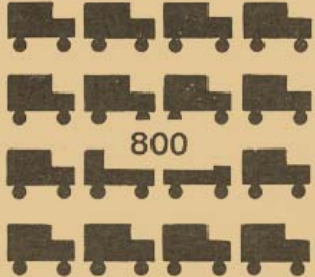
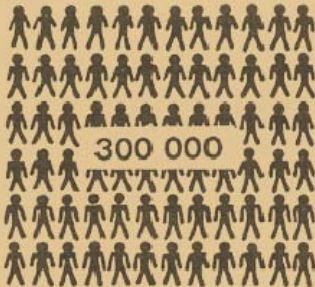
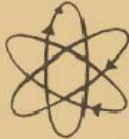

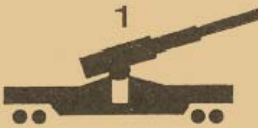



II - An answer to proliferation



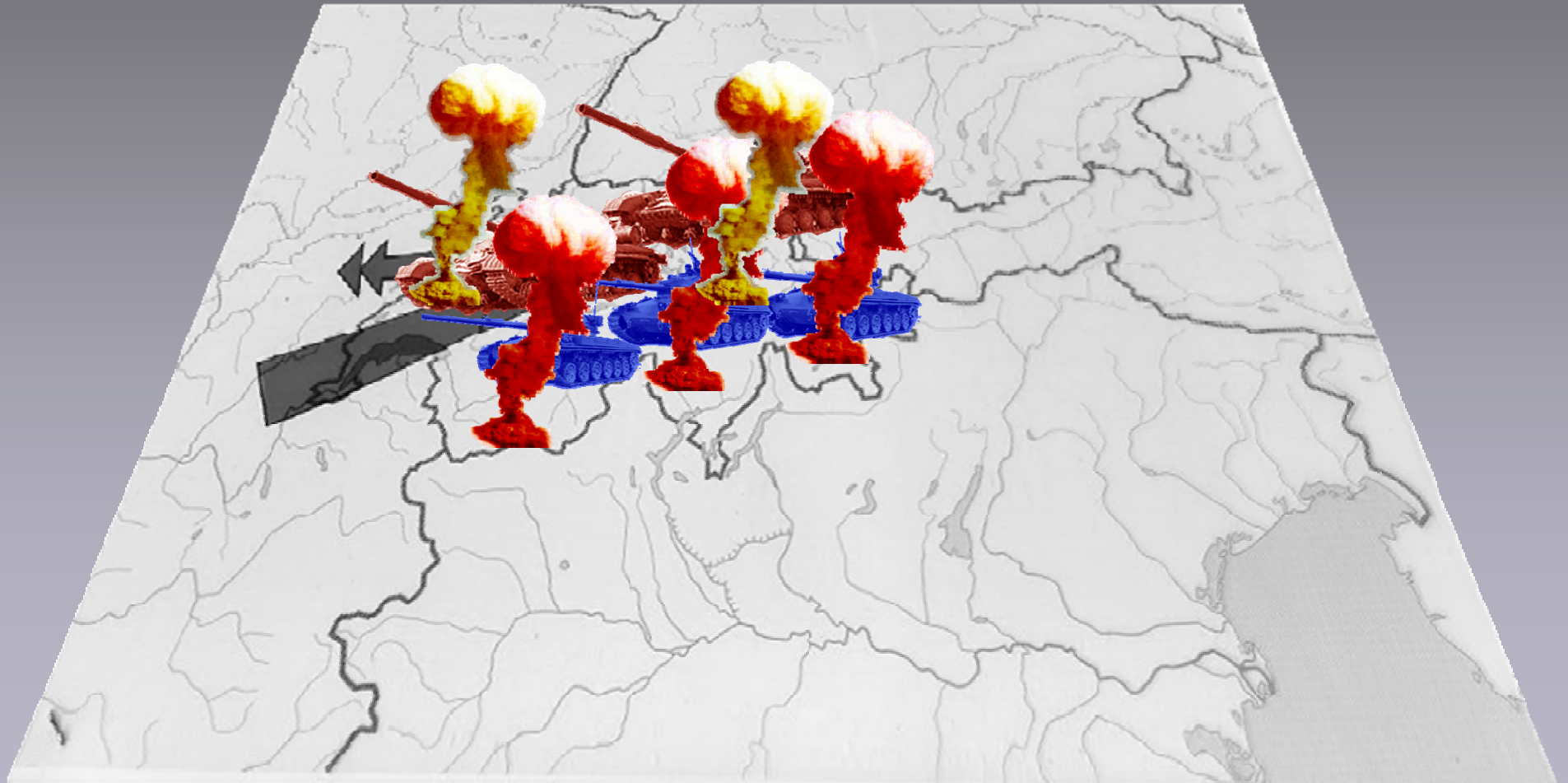
III - A tactical view



Nuclear weapons – Only more potent weapons ?

| Klassische Waffen | | | | | |
|---|---|---|---|--|--|
| Art.  |  12 km ² |  7200 | 3 Min.  |  800 |  300 000 |
| | Getroffene Fläche | Nötige Geschütze | Zeit | Transportmittel für Munition <Lastwagen à 5 t> | Mannschaft |
|  15 KT |  12 km ² | 1  | 1 Sek.  | 1  | 800  |
| Atomwaffen | | | | | |

IV - An operational view



V – A later strategic view



Steps towards nuclear weapons



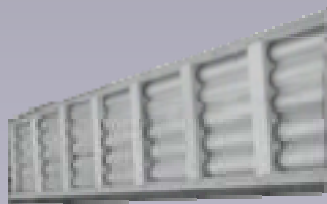
SKA

Study group 1945-1955



MAP

Report 1963



Fissile Material

1954-1955

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The population was not against A weapons



Domestic reasons for non-proliferation



Personal

How to recruit 750 nuclear experts ?



Lack of political will

Gap between defence and diplomacy



Mirage affair

Political and confidence crisis

External reasons



Non proliferation deals
block dual use projects



Diplomatic pressure
Threat on civilian uranium



Security gain
Stability through non proliferation

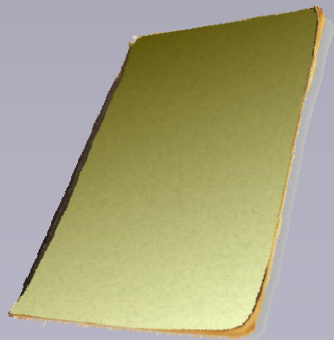
Steps towards NTP



PTBT
1963



NPT
1969, ratified 1977



AAA study group
Steps towards threshold status

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Is this model applicable elsewhere ?



The NATO nuclear shield benefited to Switzerland



NTP created security through international compliance



Diplomacy prevails over the military



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