

CBRNP3

PREPARARE
PREVENIRE
PROTEGGERE

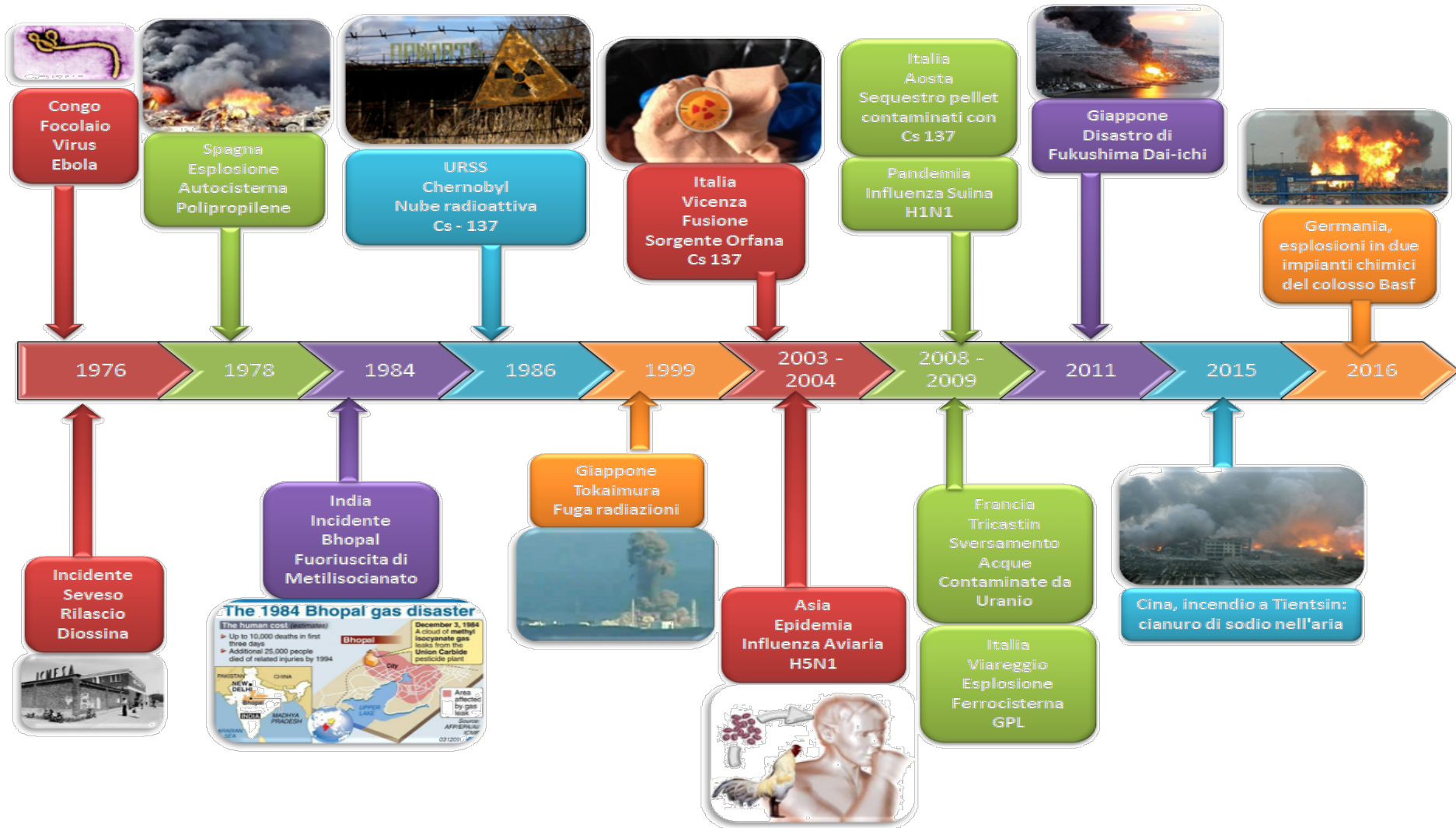


**Technological, Industrial and
Institutional cluster for preparation,
prevention and protection
from CBRN risks**

How to Protect Against a CBRN Event? A Multidisciplinary Approach



Environment Protection and CBRN Risk



Industrialization and CBRN Risk



The industrialization process has caused a continuous increase in the number of potentially hazardous facilities

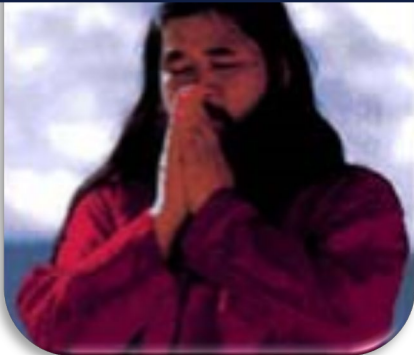
This phenomenon concerns geographical areas in countries where, for lack of experience, weak state structures and/or high exposure to corruption, are not able to ensure adequate prevention and crisis/emergency management

This is associated with an increase of industrial risks associated with industrial residues that potentially increase the environmental pollution phenomenon in terms of storage, disposal and transport

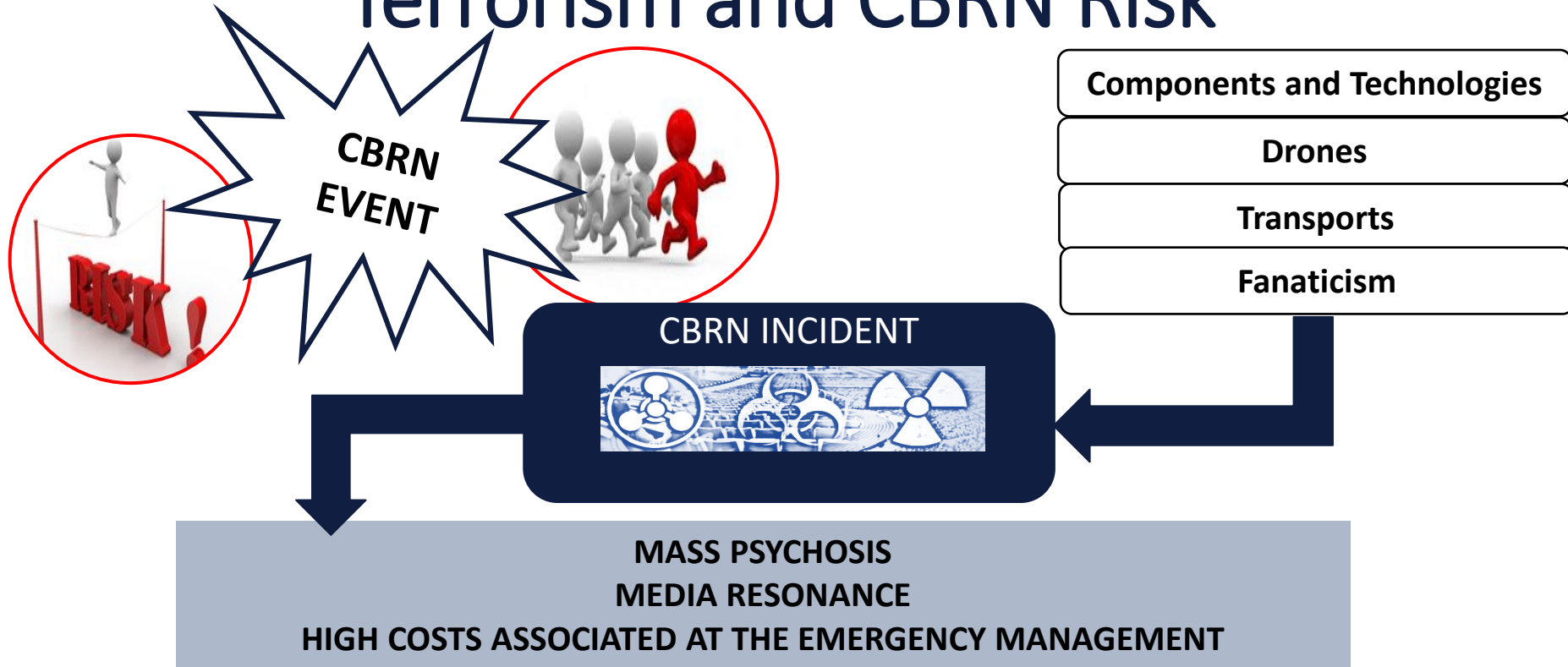
Terrorism and CBRN Risk



- In the last decade the terrorist threat has been added to the risks of accidents or illegal disposal of toxic materials, with particular reference to the Islamic terrorism.
- Terrorism can take advantage from the consequences of globalization.



Terrorism and CBRN Risk



All this entails a high sensitivity, with a strong irrationality component , of public opinion concerning CBRN issues.

For this reasons, the relevance of CBRN aspects should be assessed from the point of view of "objective" vulnerabilities related to the nature of the threat (with a focus on the terrorist factor) and from the "subjective" vulnerability of the response system (with attention to institutional and technical-operational criticalities).

CBRN Risk: European Scenario



- At the European level the importance of the CBRN issue has been confirmed by wide attention devoted by the relevant stakeholders:
- Following the *Seventh Framework Program*, CBRN issue continues to be the subject of attention at European political level and investment in the Framework Program for Research and Innovation *Horizon 2020*.

- The thematic area identified by the European Commission as a "Security" is one of the elective areas for the application of many CBRN technologies.



The European Experience



CBRN Finland is a consortium of world leading CBRN companies, specialized in cost-effective ways to create and develop step by step CBRN performance by modular and compatible solutions. The CBRN Finland member companies have large scale CBRN expertise with international customers, combined with strict technical requirements since 1950's.



Defense NBC is an industrial consortium with an international vocation, the first in kind in the world, which covers the major aspects of a comprehensive nuclear, biological and chemical defense in the military and civilian areas. Today the NBC Defence GIE represents 17 companies.



Born in the 2006 from an agreement between Ministry of Defence and Ministry of Interior. The Defence CBRN Centre is to become an (inter)nationally recognized organization where civil and military organizations cooperate in CBRN knowledge, education, training and exercises.



**Romanian Cluster
PROECO-CBRNE**

Romanian Cluster PROECO-CBRNE is an association of legal entities established in Romania and aims the research, innovation, development, technology transfer and education in the field of CBRN protection. The Vision and Mission are strengthening and developing their own value chain, as the premise of easy access to the science and latest technology discoveries to protect the life of the people and the environment under the presence of CBRNE agents.

The Italian Experience



Italian institutions representing the world of research and industry have actively participated in projects funded by the European Commission, such as **“END-USER DRIVEN DEMO FOR CBRNE” (EDEN)** active in the period 2013 - 2016



CB-WASTE MANAGEMENT

“Knowledge development and transfer of best practice on Chemical and Biological WASTE management. The project falls within the EU CBRN CoE Risk Mitigation Initiative jointly implemented by the EU Directorate General (DG) Development and Cooperation – EuropeAid (DEVCO), the European Commission’s Joint Research Centre (JRC), the European External Action Service (EEAS) and the United Nations Interregional Crime and Justice Research Institute (UNICRI)



«LA MINACCIA NBCR: POTENZIALI RISCHI E POSSIBILI RISPOSTE»

The objective was to evaluate the Italian system of management of NBCR risks and to propose some lines of intervention that could improve management capabilities in the event of an NBCR emergency. This study was prepared by the Istituto Affari Internazionali (IAI) in cooperation with Forum ISPRO on behalf of the (CeMiSS).



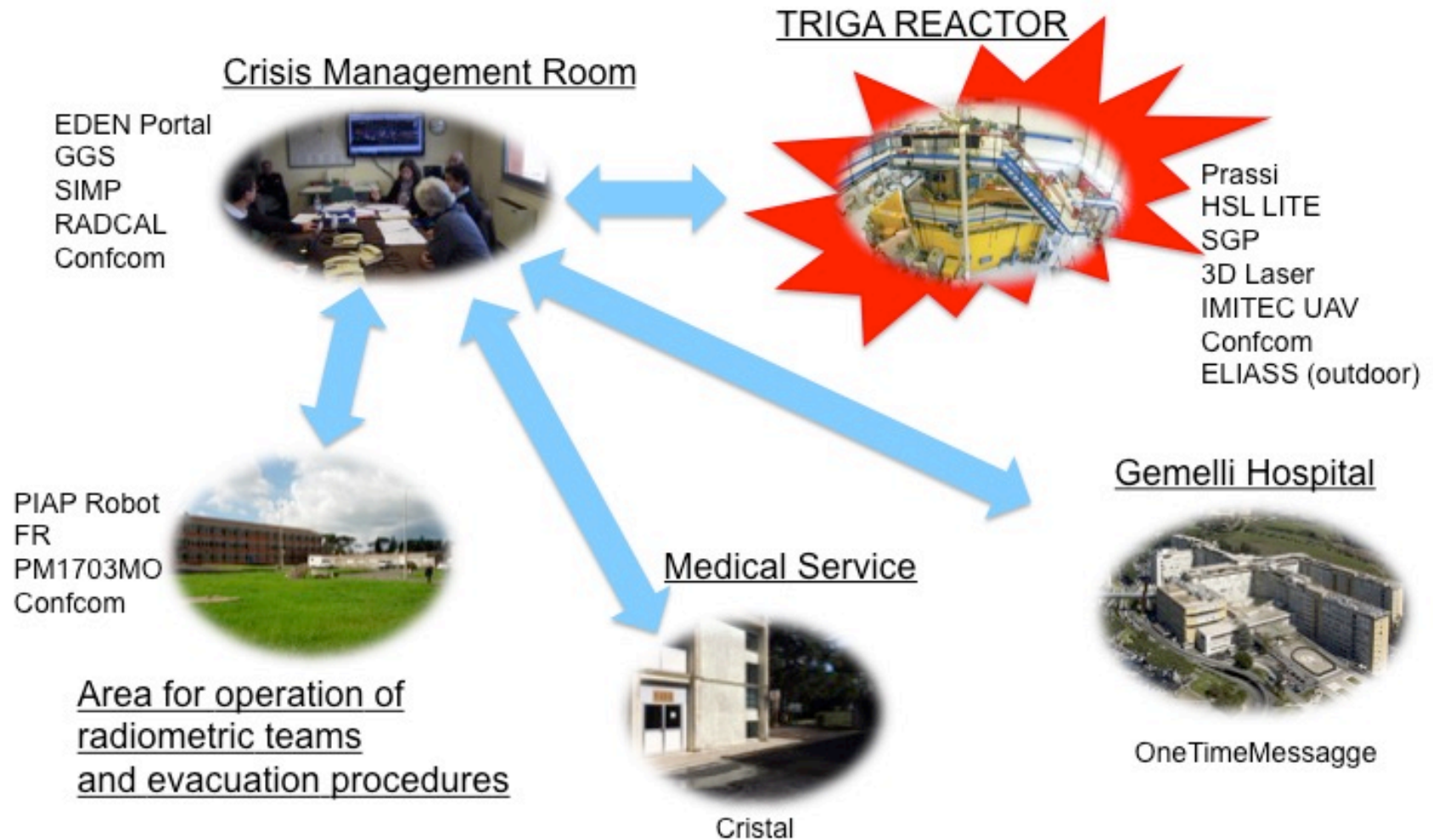
SERIT (SECURITY RESEARCH IN ITALY)

is a joint initiative launched by CNR and Finmeccanica, brings together Italian industries academia, research centers and end-users, in order to promote and develop a National Research Agenda to drive the future technological developments, while answering to the identified National Security needs. At this moment more than 300 organizations and an increasing number of security experts participate in all SERIT activities.



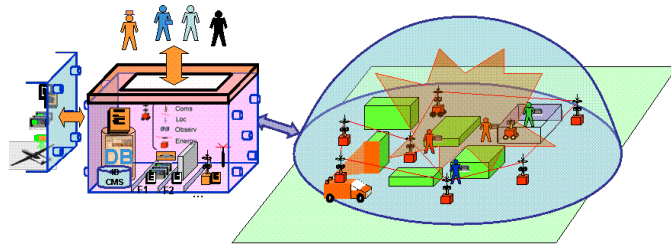
End-User Driven Demo for CBRNe

"Crisis in a Nuclear facility" - Casaccia 5 - 6.04.2016 and at Gemelli Hospital

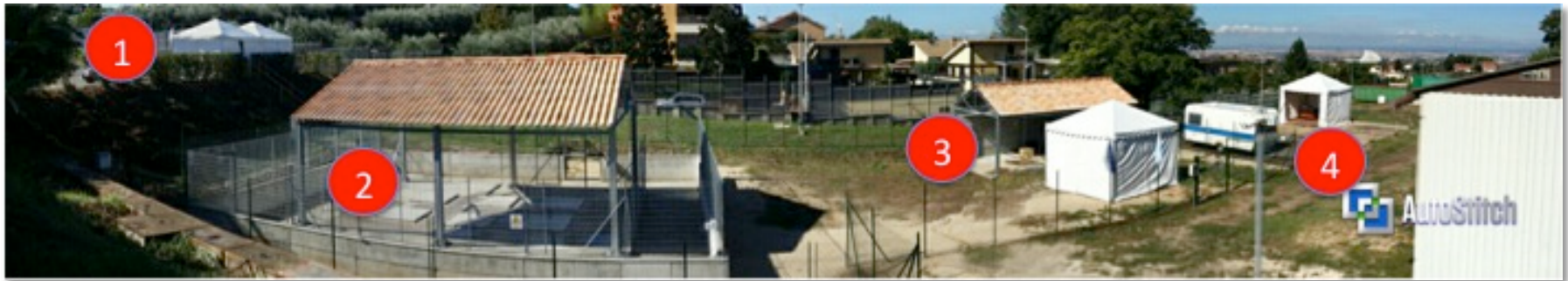




End-User Driven Demo for CBRNe



Sub-Demo “Dirty Bomb Detection With Radiation Materials”
Frascati 29-30 09 2015



The experimental area set up for the RN4.2 DEMO. 1 - Coordinating Post. 2 – Explosive Deposit. 3 - Experimental platform. 4 - Experimental platform.



Experts, End-users, Practitioners.



Work Programme 2018-2020 Secure societies - Protecting freedom and security of Europe and its citizens

Call - Protecting the infrastructure of Europe and the people in the European smart cities

Call – Security

- Disaster-Resilient Societies
- Border and External Security
- General Matters

➤ Pan-European networks of practitioners and other actors in the field of security

DG MIGRATION AND HOME AFFAIRS

- Internal Security Fund – Police
- CoU - Community of Users



European Reference Network for Critical Infrastructure Protection

EDA



European Cluster Collaboration Platform (ECCP)



EUROPEAN
CLUSTER COLLABORATION
PLATFORM .eu

CBRN Stakeholders



CBRN – P3 CLUSTER



MISSION

- Be a credible institutional partner at national and local level;
- Be involved in European research and development programs and funding;
- Raise public and political awareness towards CBRN and, therefore, contribute to the growth in the protection, prevention and management of CBRN emergencies market.



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