

Protection of infrastructures of crucial importance

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State infrastructure is of crucial importance if it's failure might cause:

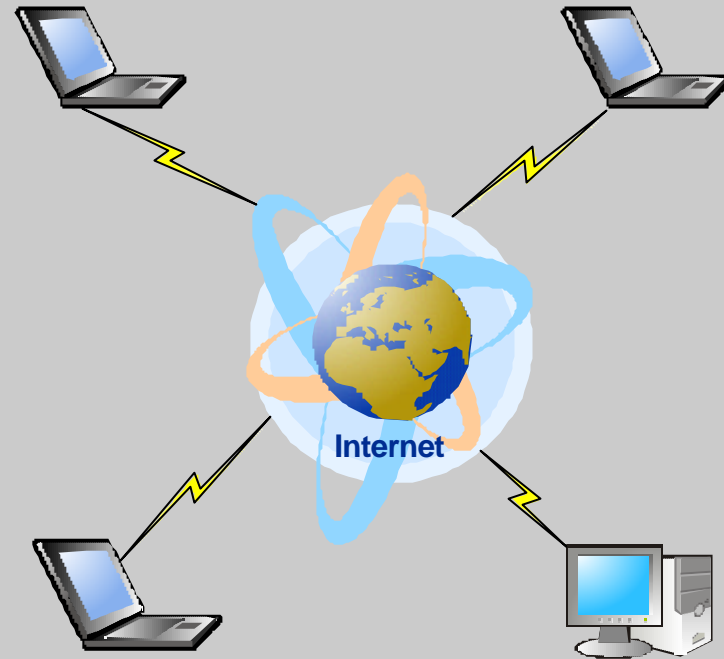
- Instability of state financial and bank systems
- Great economic damage to a large number of state and private companies
- Breakdown of providing cities and towns with vital necessary products
- Catastrophes and crashes with heavy consequences
- Deaths and casualties
- Damage of environment
- Annihilation of natural resources
- Nonprevention of terror attacks
- Stoppage of economic processes which must never stop



Two eras: before computer and after computer



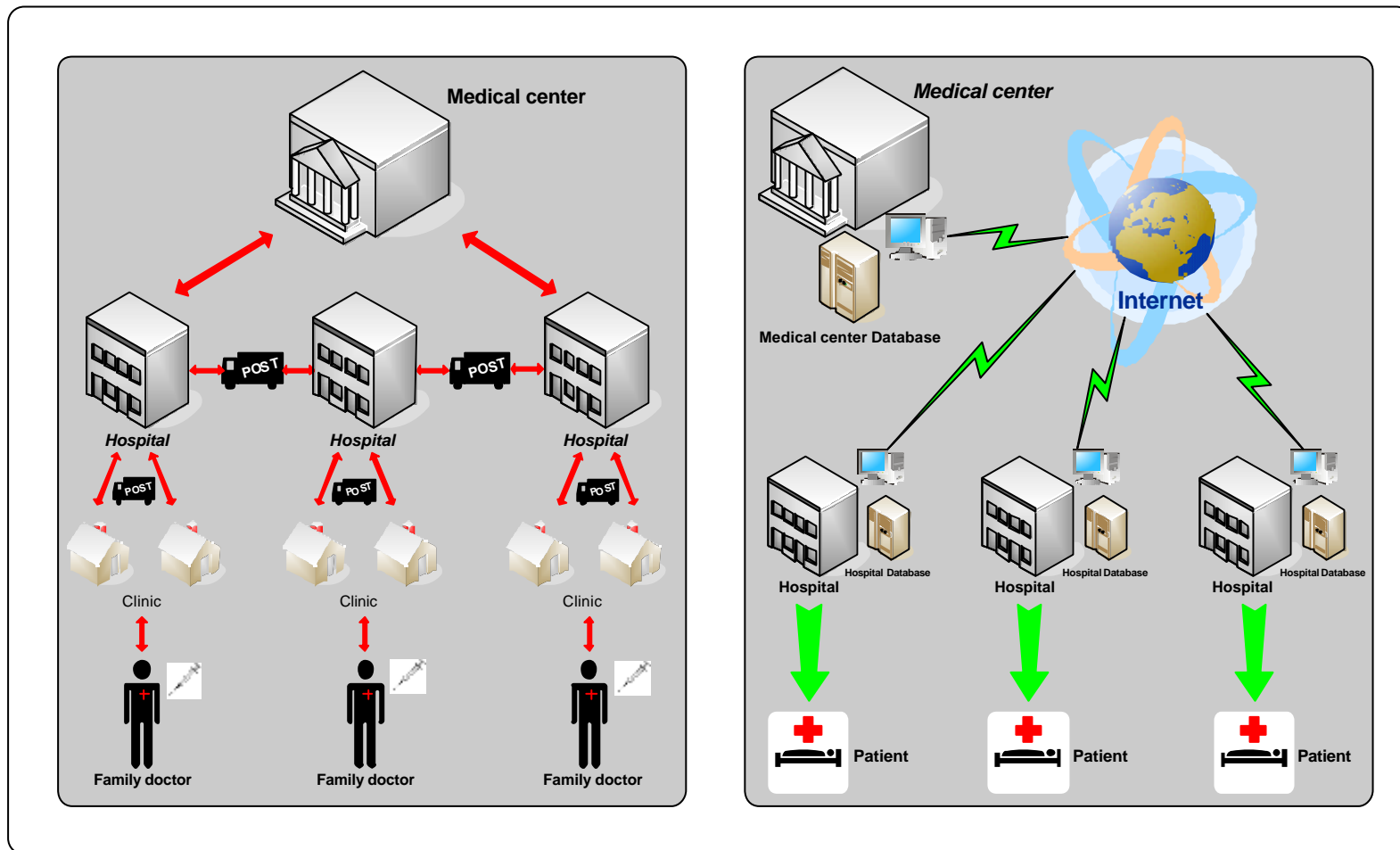
BC – before computer



AC – after computer

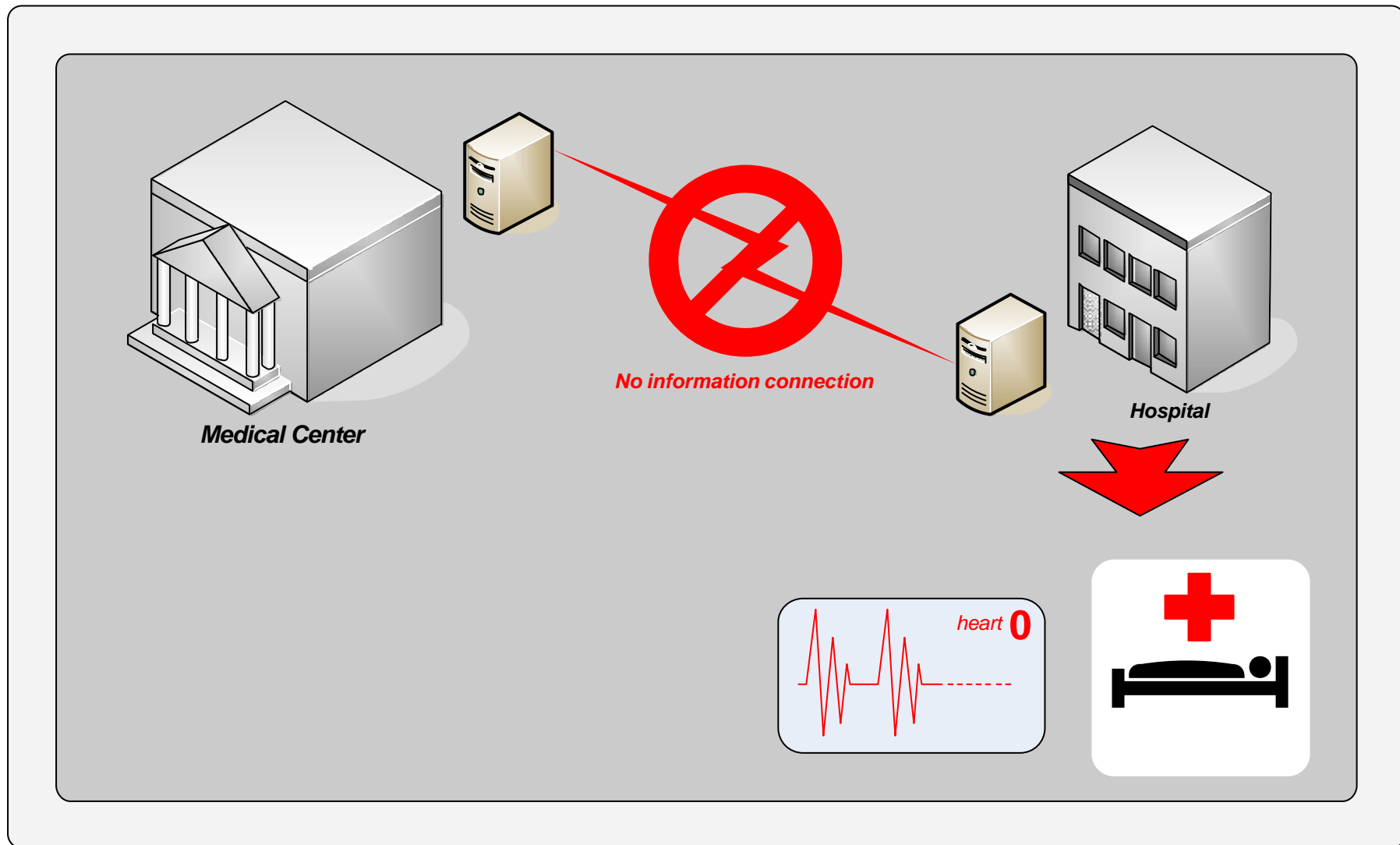
Public health

One of the most important sectors, determines the levels of present social stability as well as the level of future economic achievements



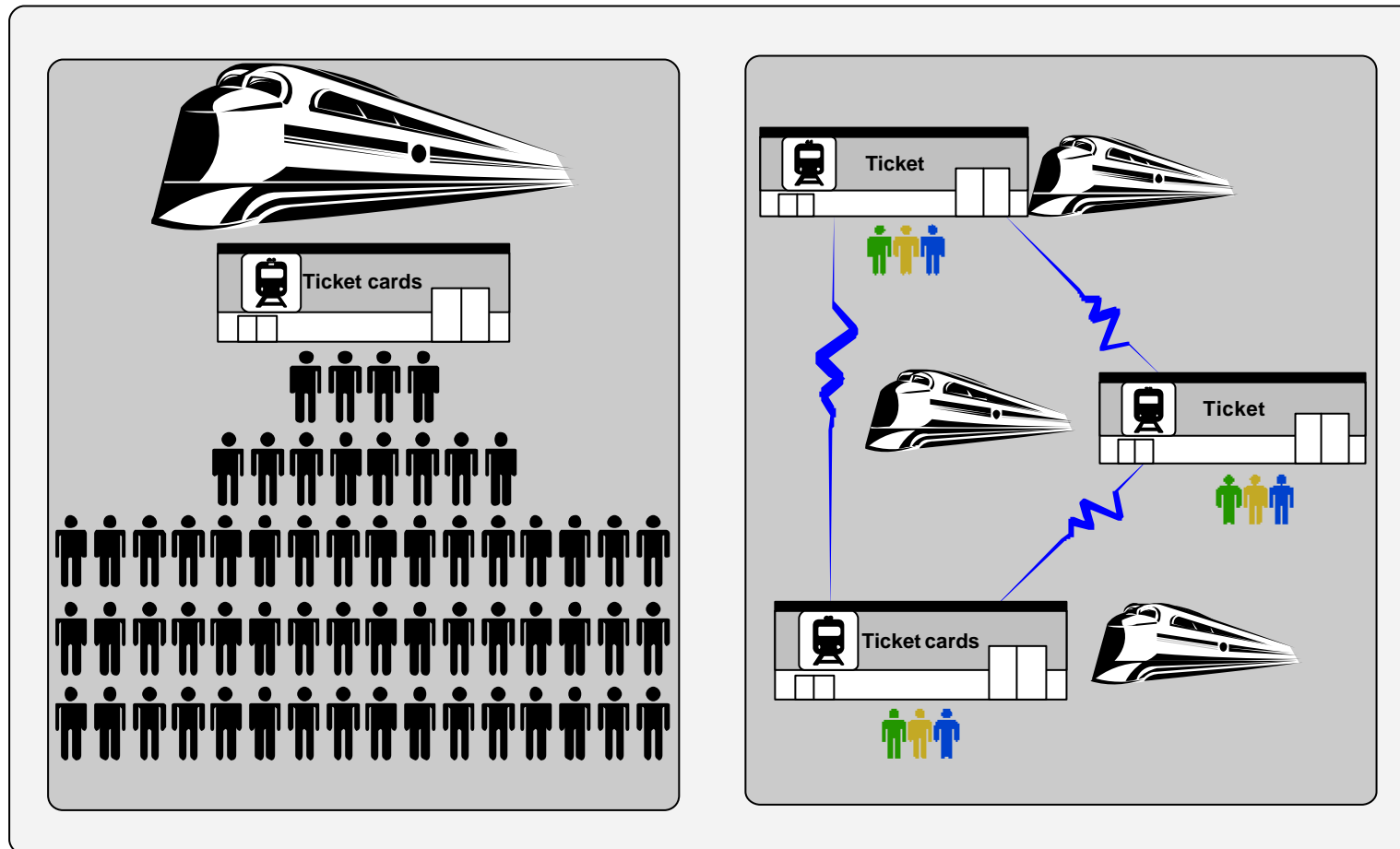
Public health

Vulnerability in front of information threats



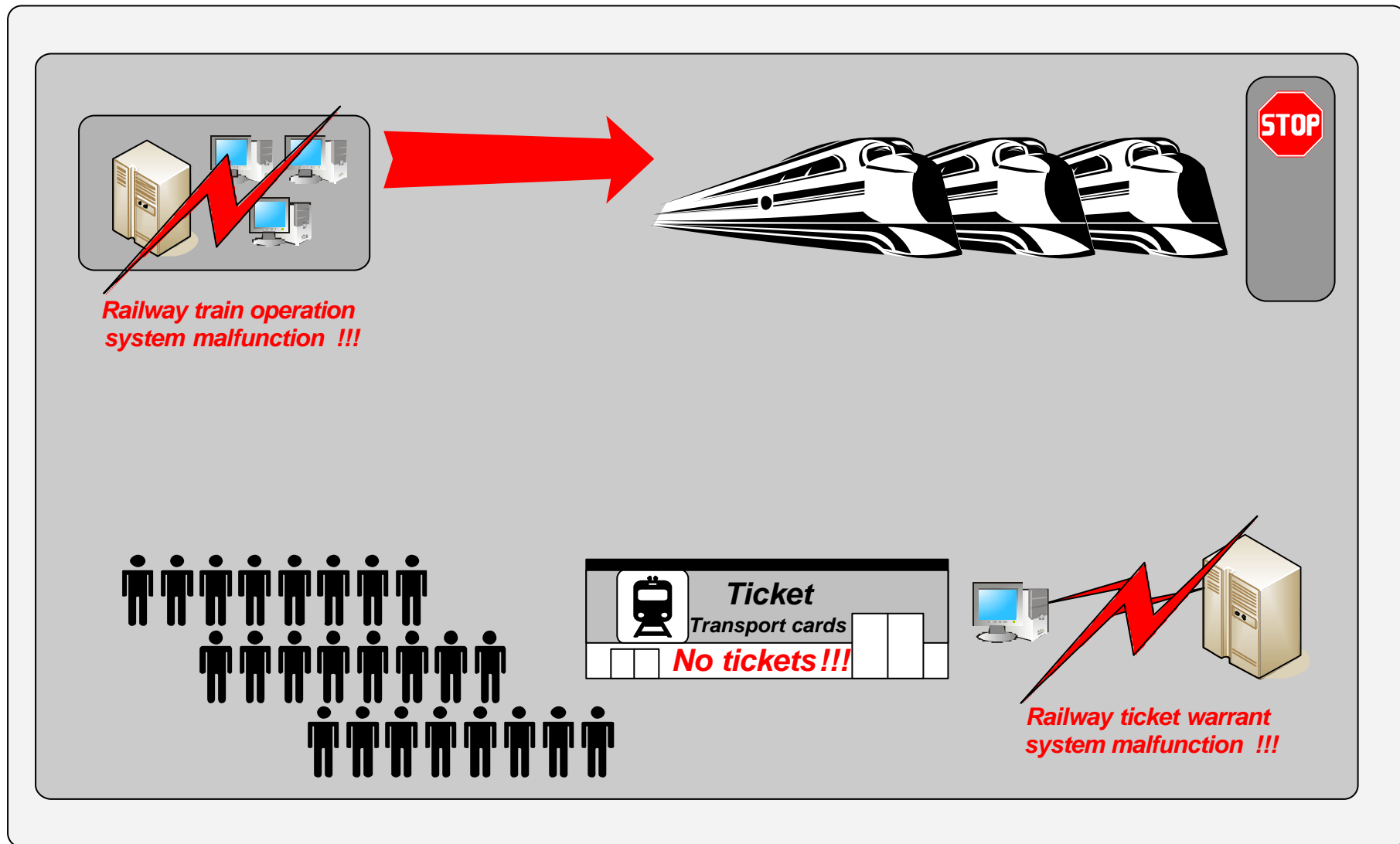
Railways

This sector determines the scale state goods turnover and in influences the efficiency of the whole state economy. Is the cheapest mean of mass passenger turnover, providing freedom of movement for population

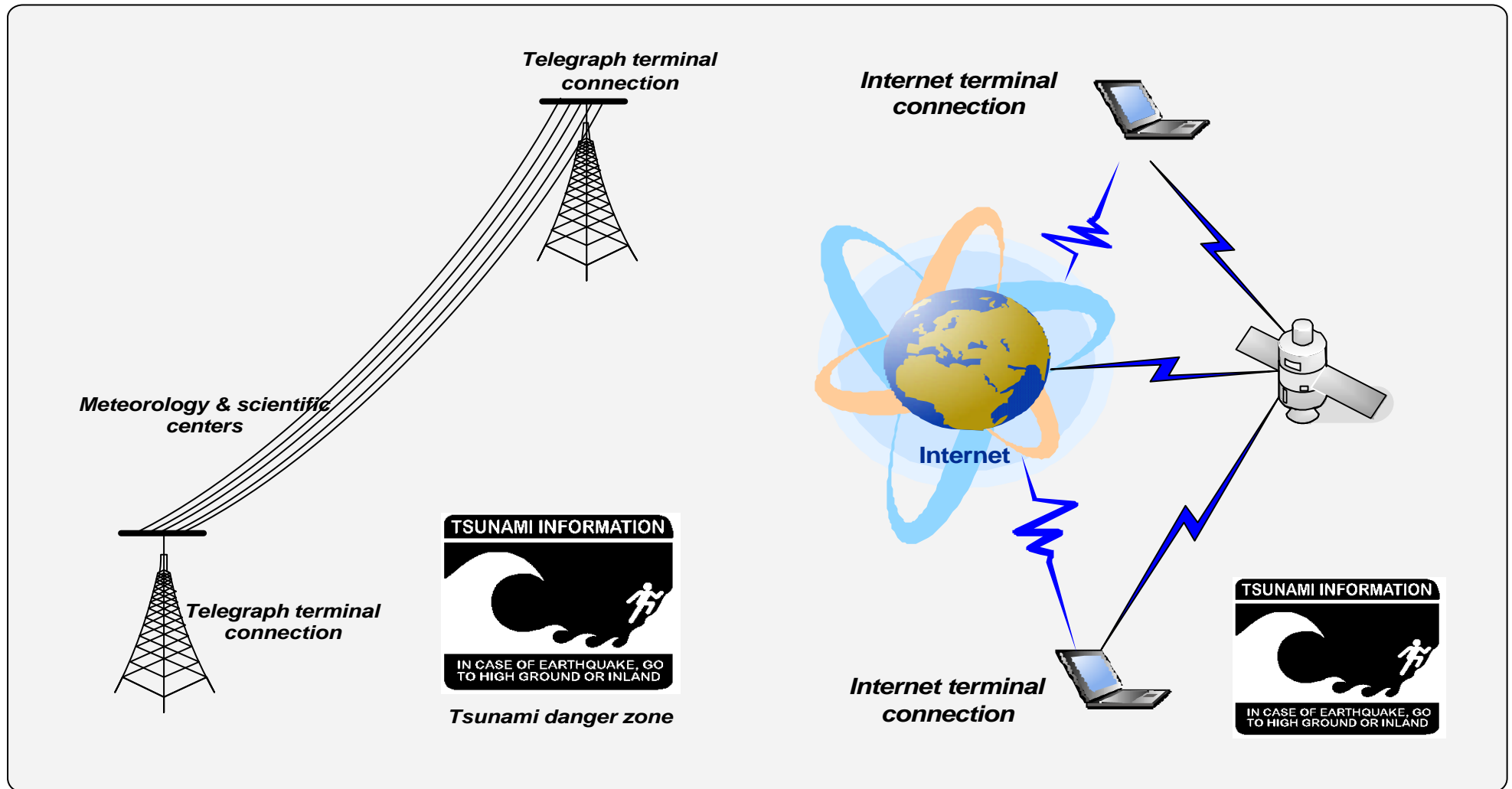


Railways

vulnerability in front of information threats



Enviromental and meteorological services



Enviromental and meteorological services

vulnerability in front of information threats

- Breakdown of system functionality
- Inaccessibility of critical data
- Impossibility to get trustworthy data
- Interpetation errors (a new type of information threat typical for expert systems “human being - automatic information system”, including subjectivity in making decisions)



Conclusions

The process of wide deployment of modern information technologies into crucial economic sectors, increasing use of “real time” systems, determines role of both national and international bodies.

National bodies (National governments, ministries etc.)	International bodies (ITU-T, ISO, IETF etc.)
Determination of requirements to information security of concrete systems of crucial importance, directive issuing and law enforcement to exclude threats to personality, business, state.	Further development of ITU-T recommendations, especially recommendation X.805. Special attention should be given to information security to distributed applications and their integration with decision making systems.

Thank you for
your attention

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