



**HUNGARIAN SOCIETY FOR ENVIRONMENTAL EDUCATION**



Real World Learning Network  
Exploring Effective Approaches to Outdoor Learning  
at Sluňákov, Horka nad Moravou, Czech Republic




21 – 24 January 2013

**Holistic approach, systems thinking**

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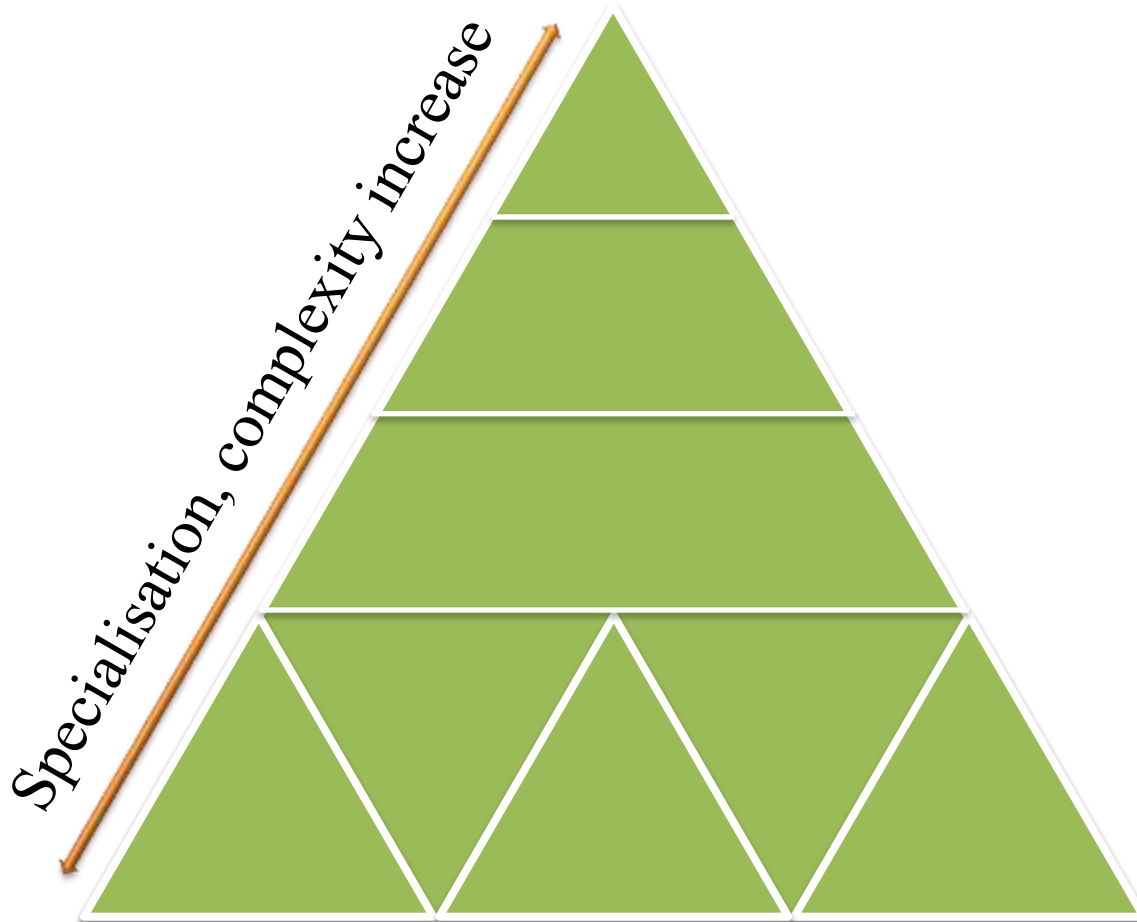


One of the basic principles of sustainable development is the principle of holistic approach or systems thinking.

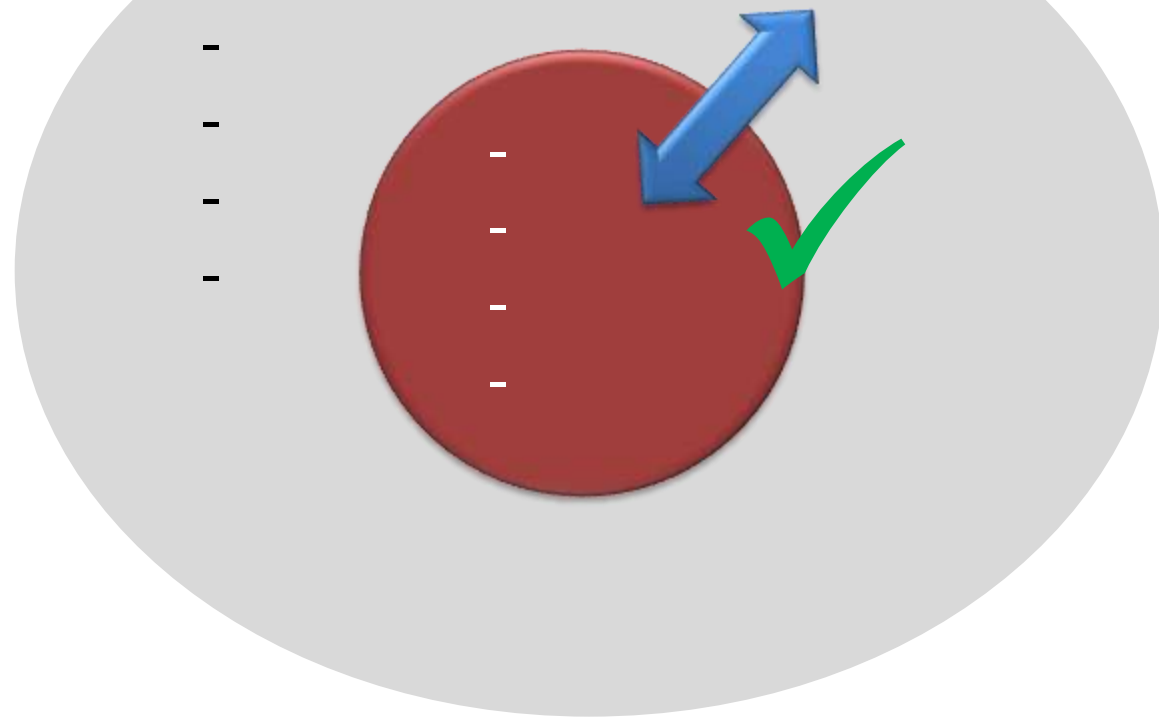
The principle of holistic approach: Things must be viewed as a system of inter-related elements, the elements themselves are also being systems interacting with one another. Any intervention may trigger ripple effects even in remote systems. So local challenges can be adequately addressed relying on the knowledge of the wider environment and global trends alike.



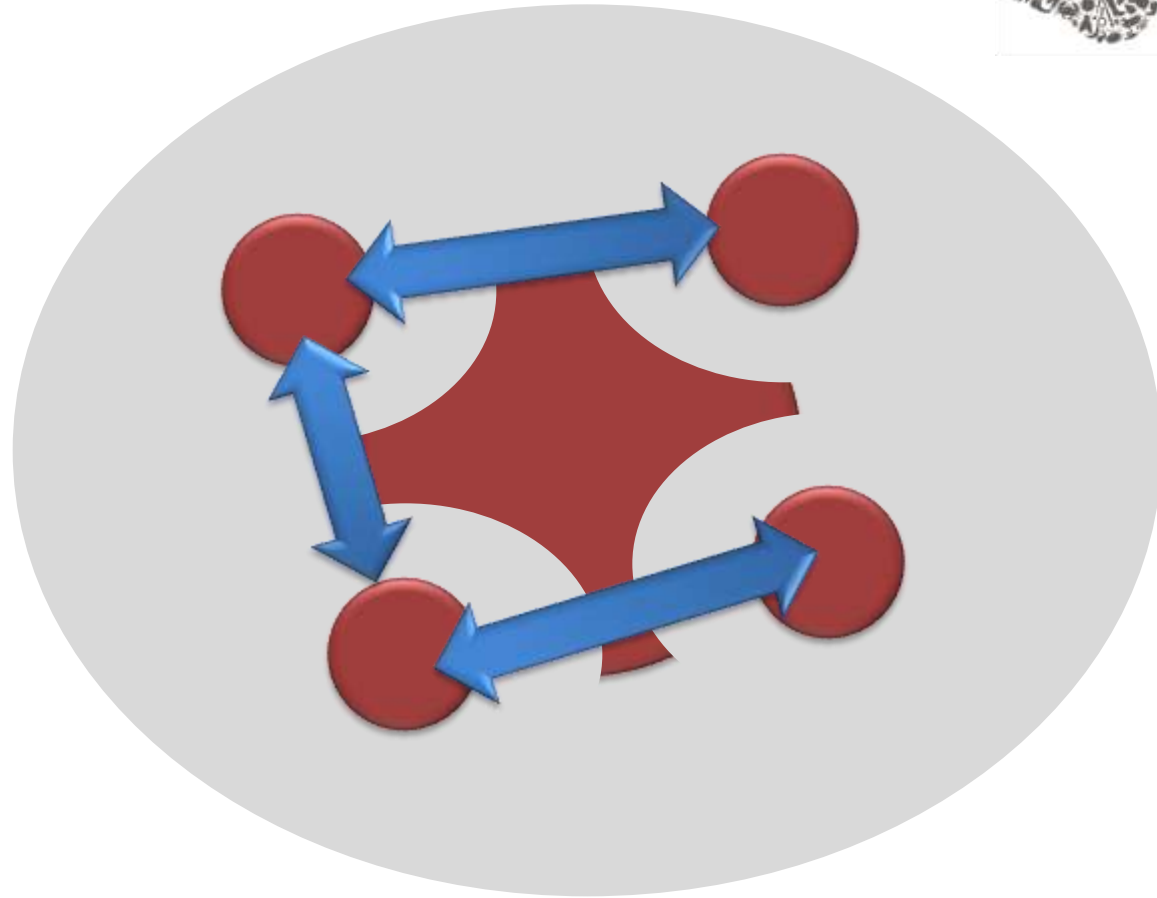
Dynamic equilibrium state reigns in natural systems.



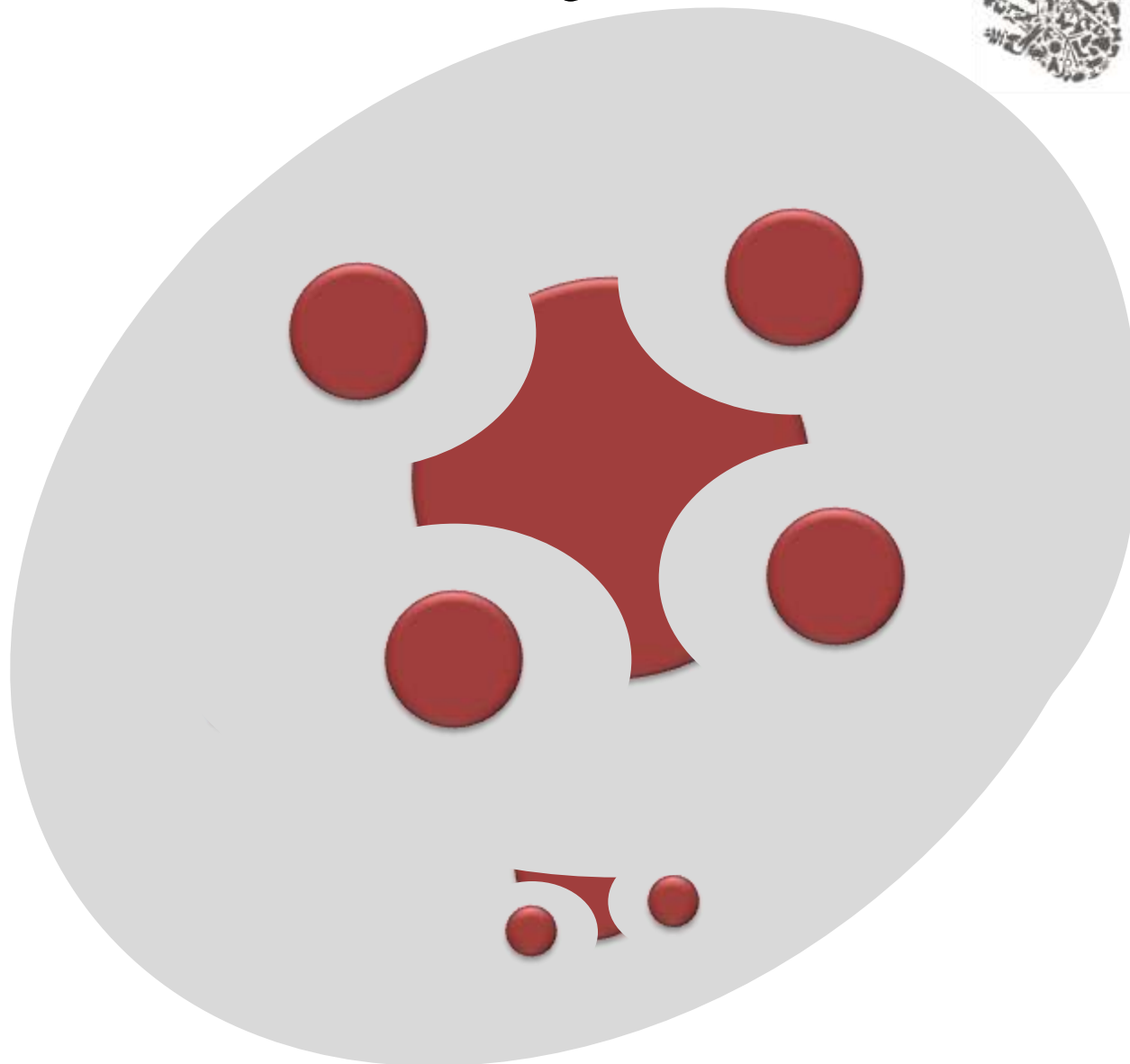
The relationship between environment and system.



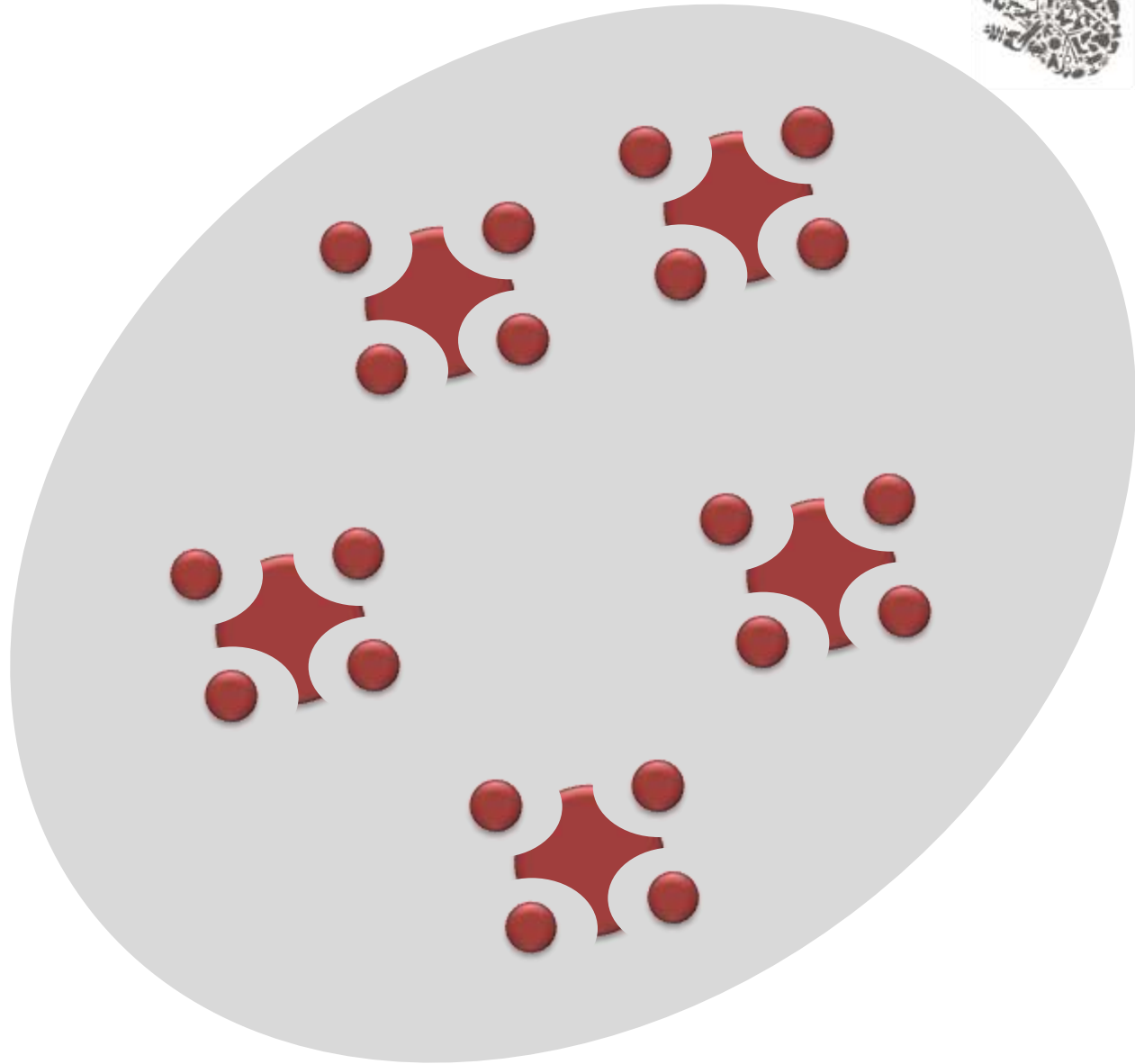
The system will operate well when environment meet the condition of the system. The system and its environment are in a constant contact with each other.



Systems are made of sub-systems.  
The sub-systems are interact with each other.



The systems are sub-systems of a larger system.

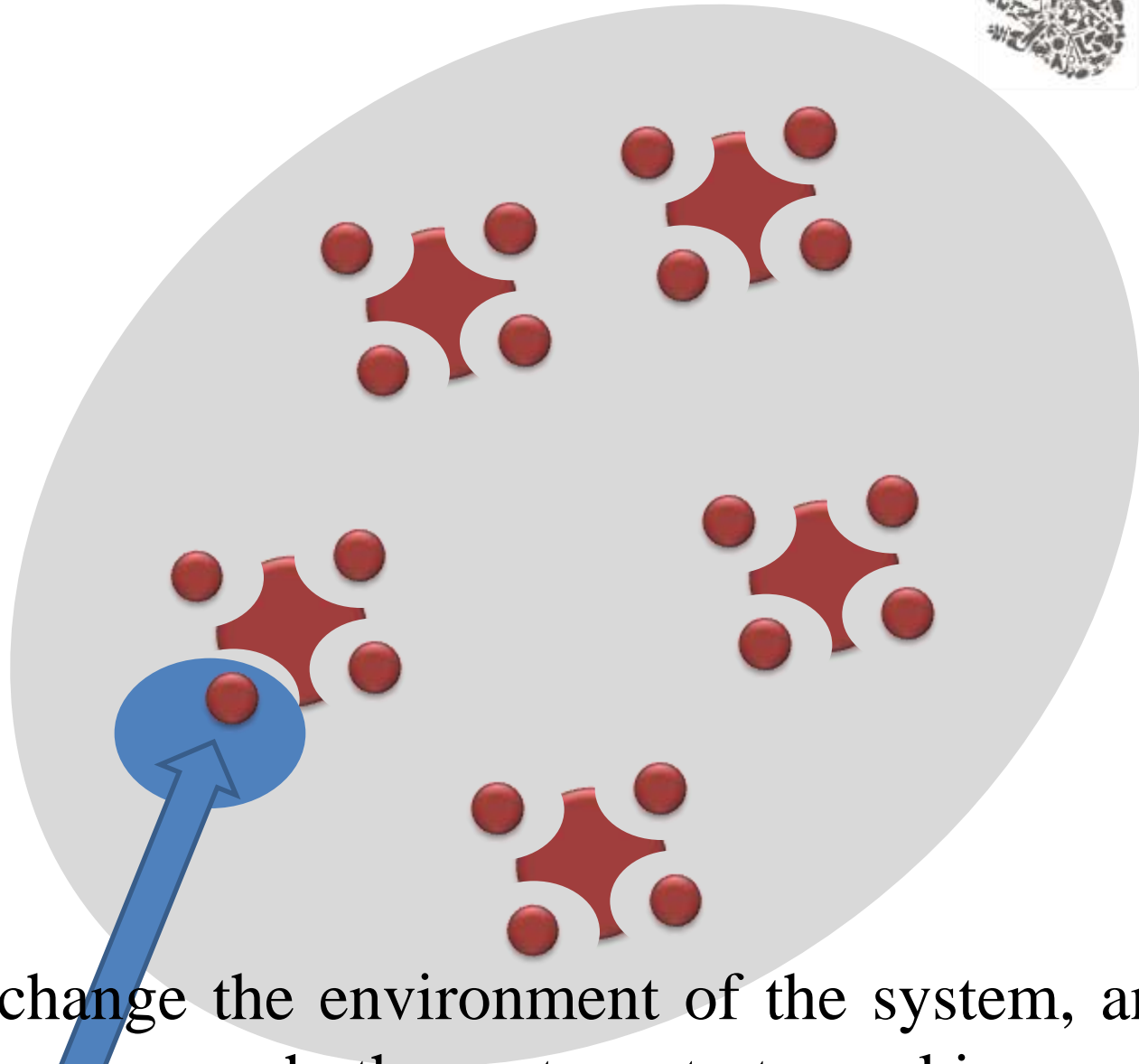


The system and subsystems are looking for the optimal function state.

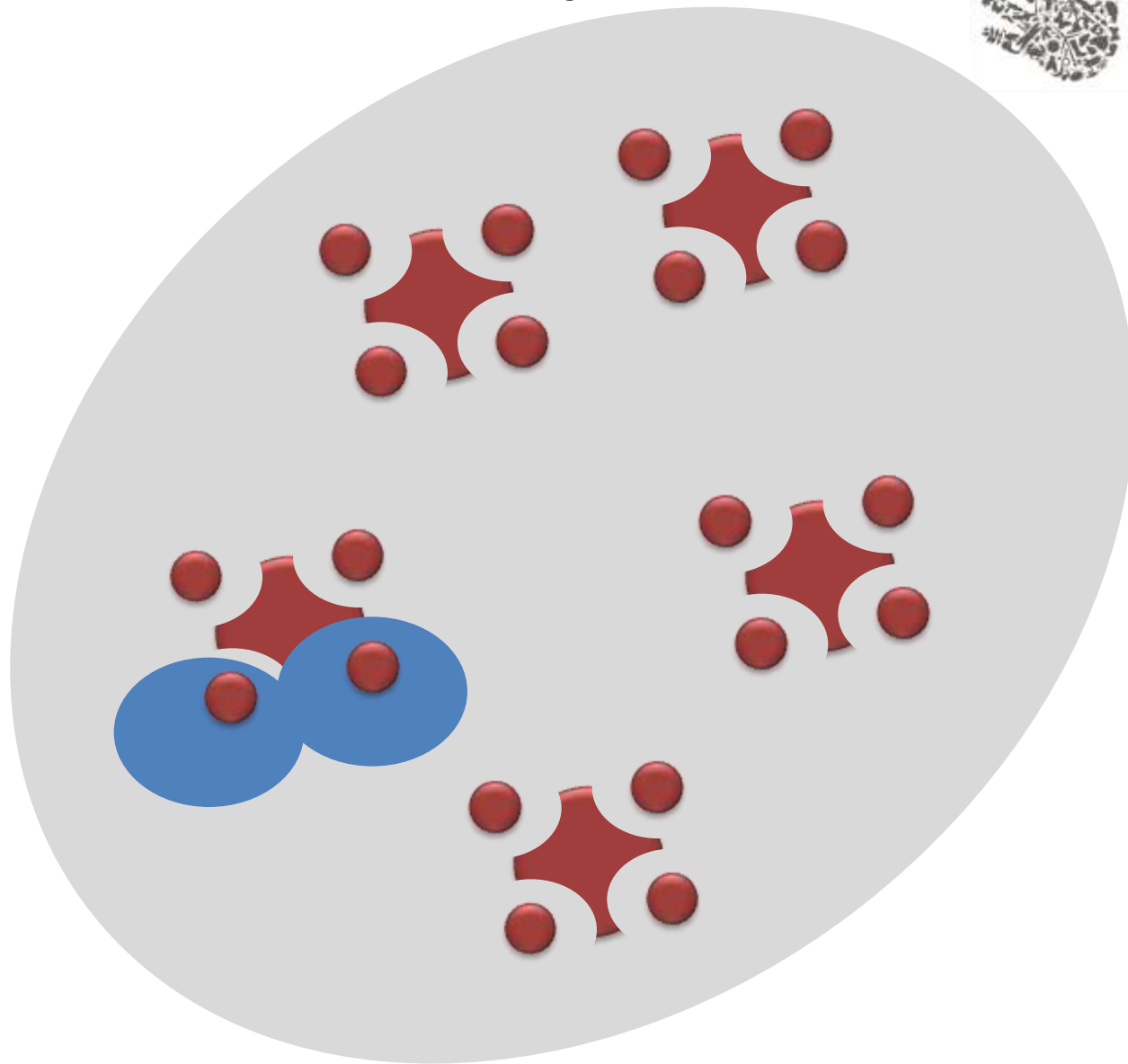


The systems are more or less proof against the exterior impacts. But higher stresses move them out of their equilibrium.

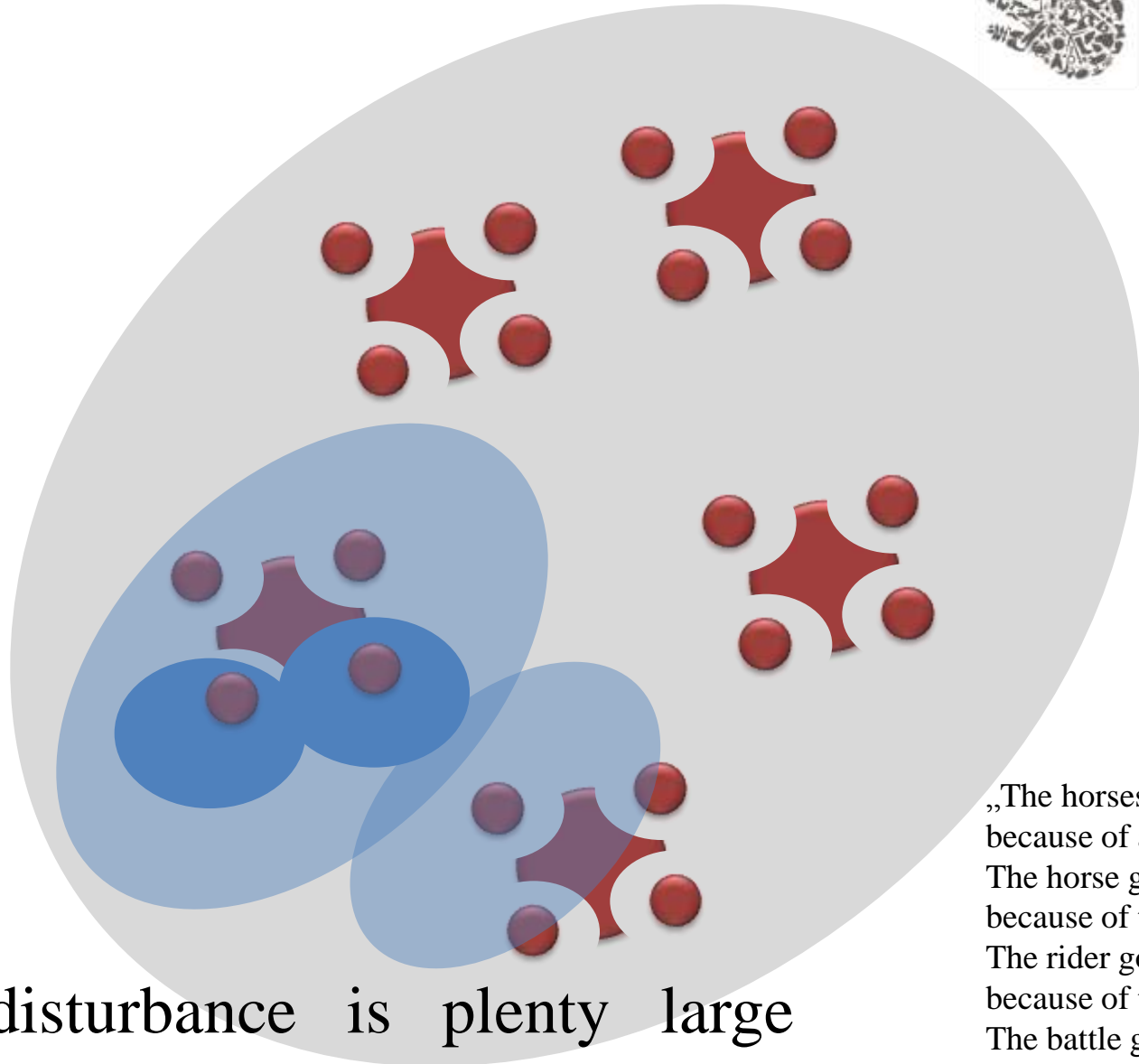




When we change the environment of the system, and this impact is large enough, the system starts working wrongly.



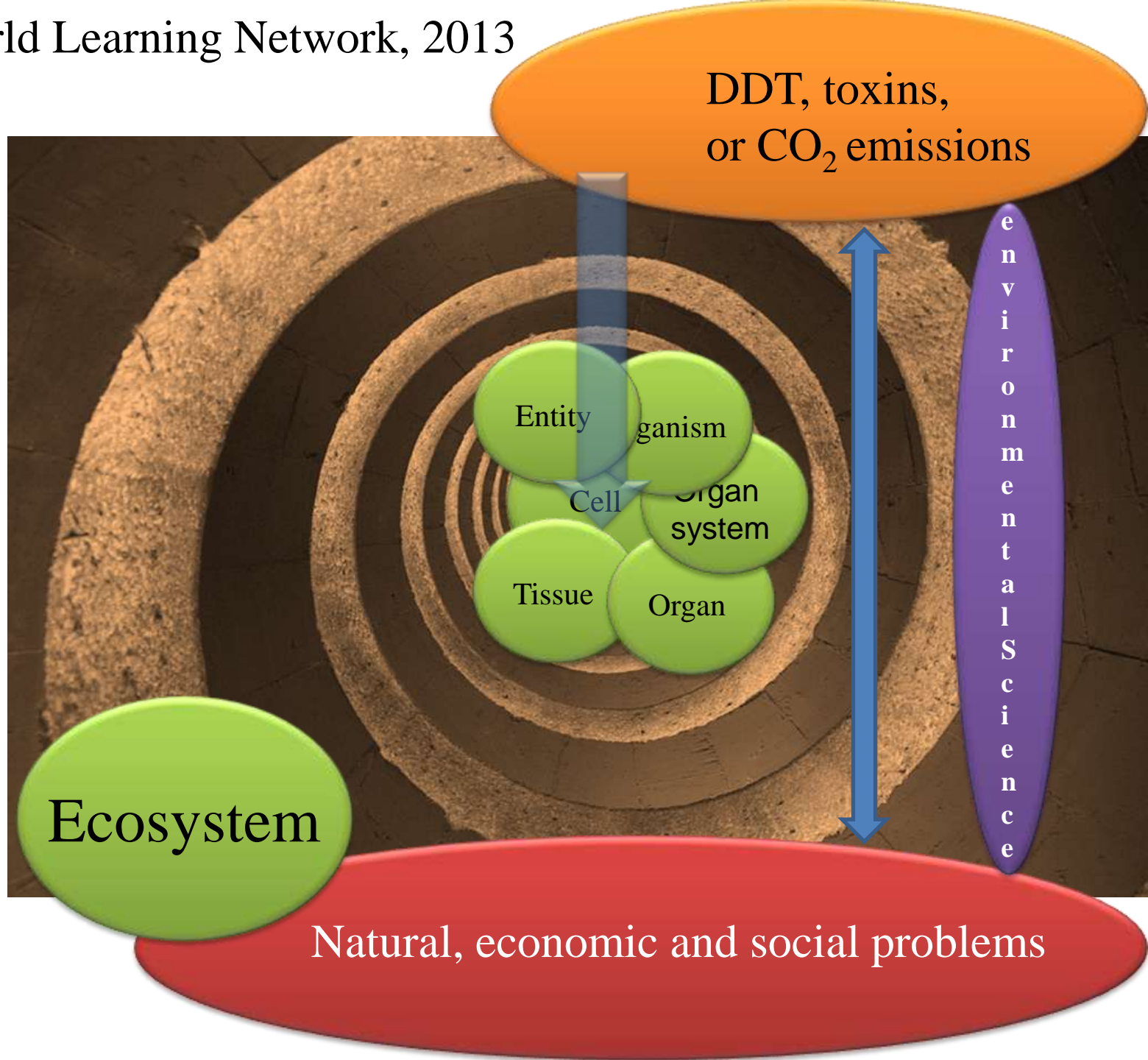
And starts disturbing the environment of an other system.



If the disturbance is plenty large enough the effect wanders through all of the hierarchy of the systems.

„The horseshoe got lost because of a nail.  
The horse got lost because of the horseshoe.  
The rider got lost because of the horse.  
The battle got lost because of the rider.  
The country got lost because of the battle.  
Drive that horsenail well.”

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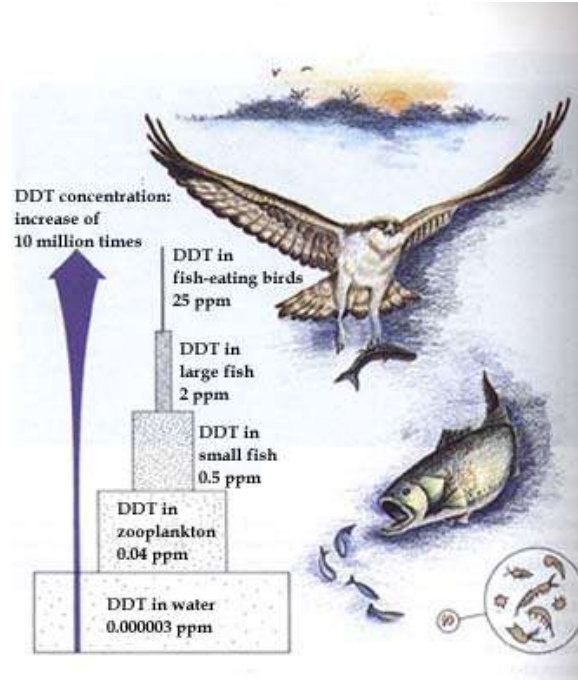
## Example:

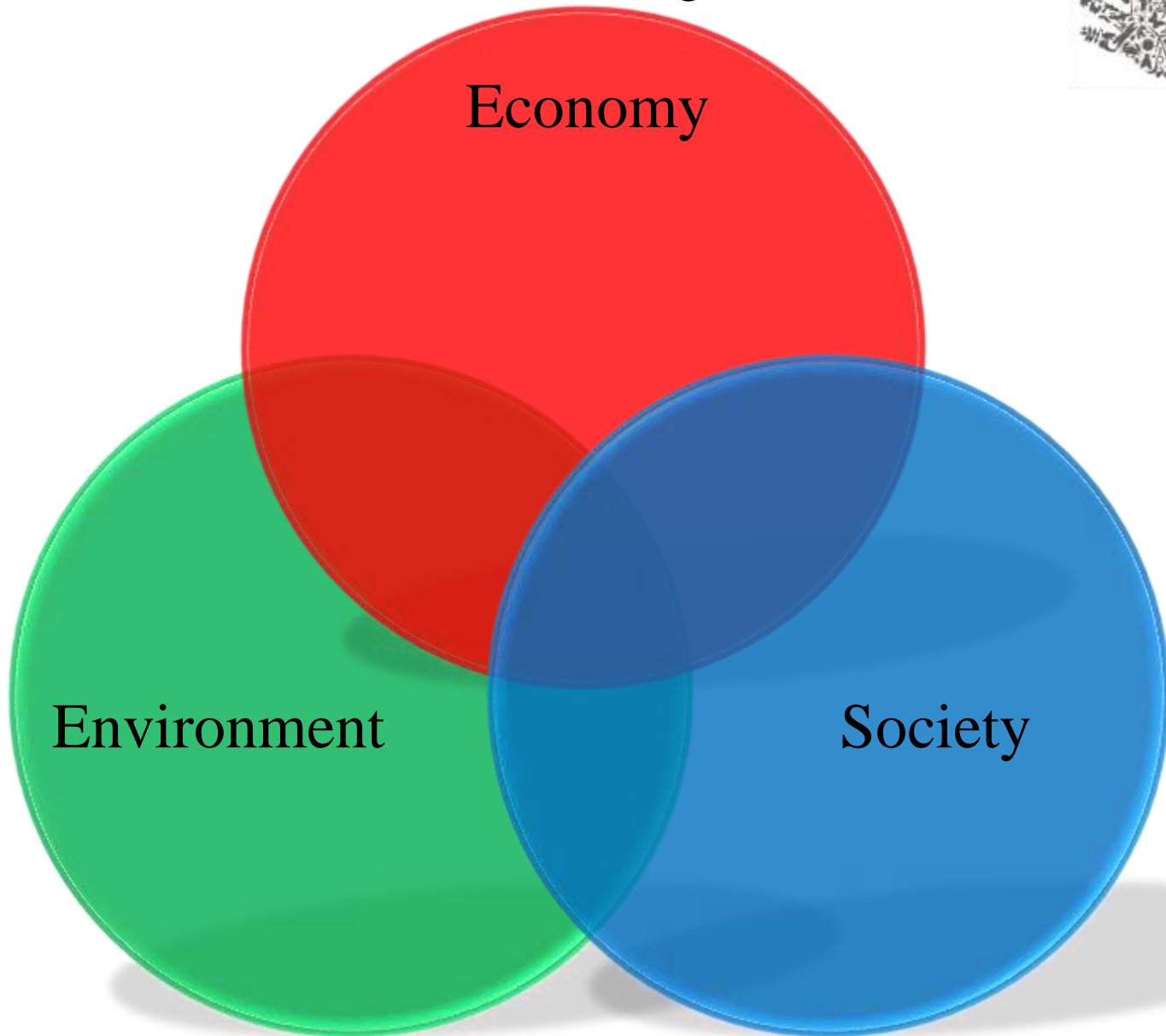


**DDT... FOR CONTROL  
OF HOUSEHOLD PESTS**



Prepared by the  
Bureau of Entomology and Plant Quarantine  
Agricultural Research Administration,  
United States Department of Agriculture, and  
the United States Public Health Service,  
Federal Security Agency  
Washington, D. C.    Revised March 1947







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# **Thank you for your attention!**

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