

Projects of the Slovak Academy of Sciences in Nanotechnology



EUROPEAN UNION
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DEVELOPMENT FUND



Slovak Academy of Sciences – in brief:

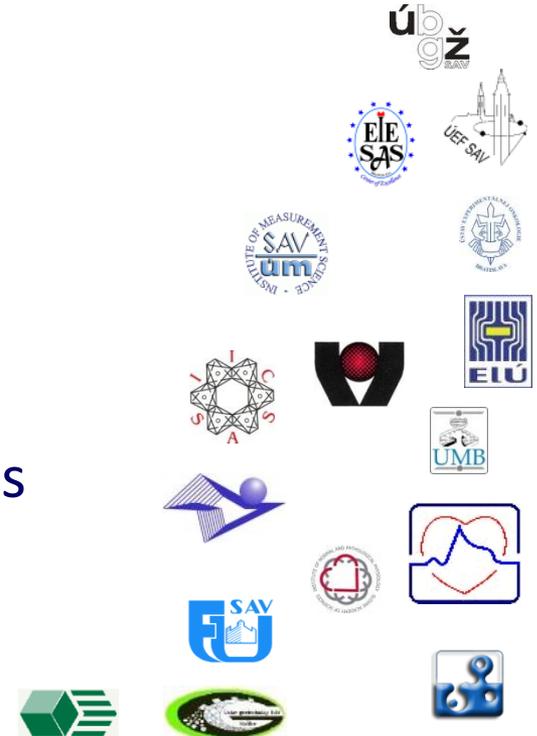
- S:** Activities in basic research, results, cooperation; well qualified & enthusiastic people;
- W:** Minor activities in applied R&D and technology transfer; equipment & infrastructure (improving ← Structural Funds) lot of projects ↔ small groups
- O:** increasing demand on new solutions for society; new challenges (Slovakia, EU, crisis...)
- T:** Lack of experiences in technology transfer – small skill; strong orientation on basic research (publications); legislative environment

Slovak Academy of Sciences – activities in nanotechnology:



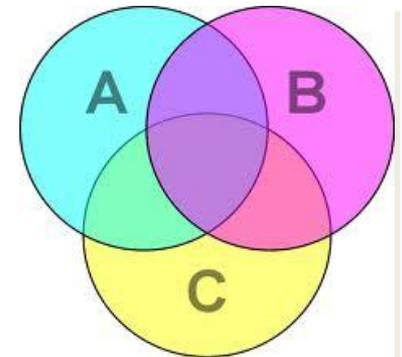
16 (+) institutes active in *nano* – topics:

- Materials research – preparation technology, testing methods
 - thin film
 - nanopowders
 - bulk nanostructured materials (structural, magnetic, ceramic)
- Properties – in general
- Nano – materials/products health applications
→ security issues



> ~ 60 projects:

- Thin films for electronics, X-ray optics, surfaces...
- Nanoparticles for fluids, soil remediation – based on local sources/raw materials
- Sensors for chemical / biological agents
- Application of nanomaterials in drug transfer, biosensors, diagnostics (cancer, Alzheimer...), safety issues
- Nanocomposites: polymer / ceramic matrix



Thank you for your attention

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