



**INNOVATIVE
ECONOMY**
NATIONAL COHESION STRATEGY



EUROPEAN UNION
EUROPEAN REGIONAL
DEVELOPMENT FUND



International Symposium on Advanced Materials and Technologies of Manufacture

ZAMAT

Advanced materials and their production technologies



The project is funded by the European Regional Development Fund (ERDF) under the framework of Innovative Economy Program, in the years 2010-2014

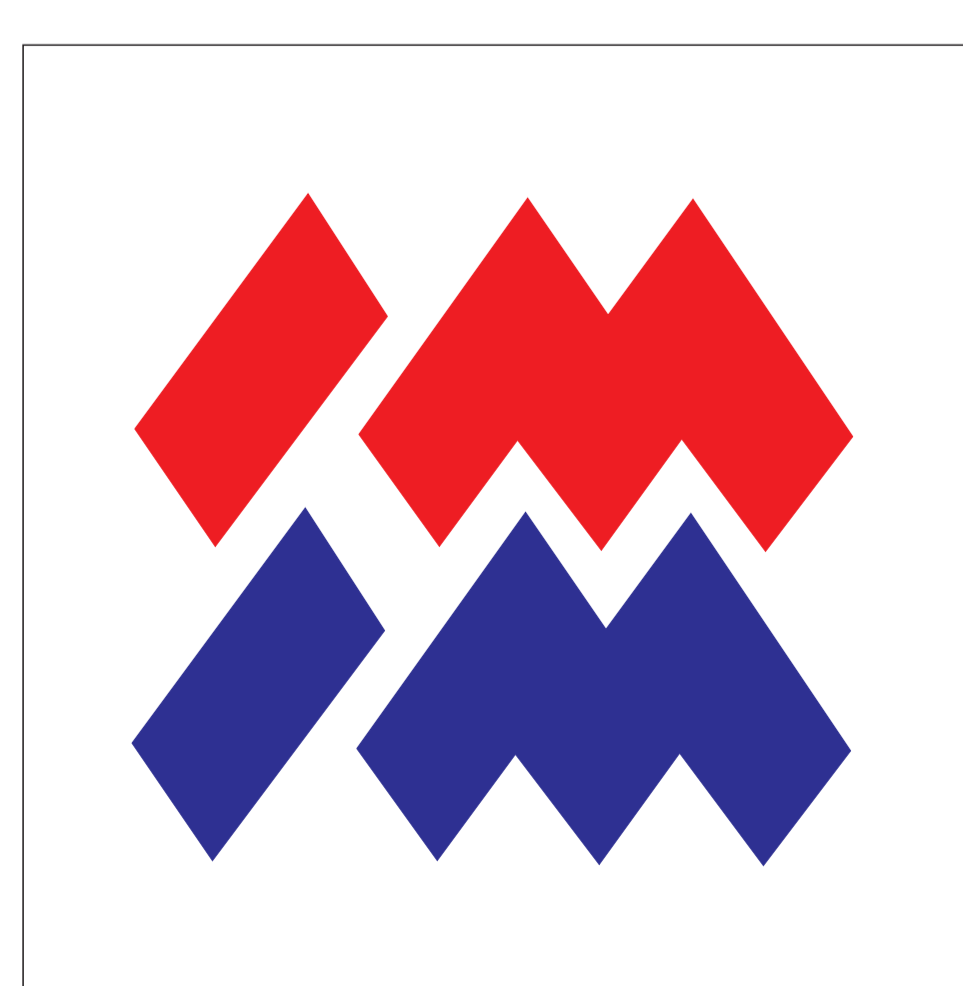
Financial outlays: 79 600 000 PLN

Tasks realized in Institute of Metallurgy and Materials Science

1. Light lithium alloys for the safety hydrogen storage – heat of formation of BLi and B₃Li, B-Li and Ca-Li alloys absorption and desorption hydrogen kinetics
2. Developing principles of electrolytic deposition of protective coatings on the base of Sn-Zn and Mn-Sn alloys with Mo and W additive substituting cadmium and eliminating chromium (VI)
3. Proecological, multicomponent lead-free and cadmium-free solders on the base of Sn-Zn and Al-Zn alloys – physicochemical and wetting properties

CONSORTIUM

- **Institute Nonferrous Metals – coordinator - Gliwice**
- **Institute of Metallurgy and Materials Science PAS - Kraków**
 - Warsaw University of Technology - Warsaw
- **Institute of Electronic Materials Technology - Warsaw**
 - **Silesian University of Technology - Katowice**
 - **Cracow University of Technology - Kraków**
- **AGH University of Science and Technology - Kraków**
 - **Foundry Research Institute - Kraków**



Institute of Metallurgy and Materials Science
Polish Academy of Sciences
30-059 Krakow, Reymonta street 25, Poland
tel.: +48 12 295-28-00, fax: +48 12 295-28-04
www.imim.pl