TOPOMOD

Project ID: 264517
Funded under: FP7-PEOPLE

Sculpting the Earth’s topography: insights from modelling deep–surface processes

From 2011-01-01 to 2014-12-31, closed project | TOPOMOD Website

Project details

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<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 3 790 070</td>
<td>FP7-PEOPLE-2010-ITN - Marie-Curie Action: &quot;Initial Training Networks&quot;</td>
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<th>EU contribution:</th>
<th>Call for proposal:</th>
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<th>Coordinated in:</th>
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<td>Italy</td>
<td>MC-ITN - Networks for Initial Training (ITN)</td>
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Objective

TOPOMOD is a training project designed for a team of early-stage and experienced researchers to investigate and model the origin and evolution of topography of the continents over a wide range of spatial and temporal scales and using a multi-disciplinary approach, coupling geophysics, geochemistry, tectonics and structural geology with advanced geodynamic modeling.

TOPOMOD involves 8 European research teams internationally recognized for their excellence in complementary fields of Earth Sciences, to which are associated 1 research institution, 3 high-technology enterprises, and 1-2 large multinational oil and gas companies. This unique network places emphasis in experience-based training through 15 cross-disciplinary research projects that combine case studies in well-chosen target areas from the Mediterranean, the Middle and Far East, west Africa, and South America, with new developments in tectonics, mineral physics, petrology, geochemistry, seismology, structural geology and geodynamic modeling from the deep mantle to the surface. These multidisciplinary projects altogether aim to answer a key question in earth Sciences: how deep and surface processes interact to shape and control the evolution of topography in our planet. Topography influences society, not only as a result of slow landscape changes but also in terms of geo-hazard and environmental risks.

TOPOMOD will provide to 13 early-stage researchers (ESRs) and 2 experienced researchers (ERs): i) state-of-the-art concepts and leading-edge research techniques that are essential to study the behavior of complex natural systems, ii) a strong career management skills with practical courses and activities; iii) solid professional connections with industry; iv) a socially-oriented skill on environmental risks management.

TOPOMOD network will create an internationally recognized leading European platform on advanced geodynamic modeling.

Related information

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<th>Result In Brief</th>
<th>Report Summaries</th>
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<td>What shapes the Earth's surface?</td>
<td>Final Report Summary - TOPOMOD (Sculpting the Earth’s topography: insights from modelling deep-surface processes)</td>
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Subjects

Education and Training - Network technologies

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