There is a severe shortage in the European photonics industry of graduates and PhDs with broad expertise in modelling and design of industrially relevant optical systems and components. This shortage is aggravated because most applied design methodologies are strongly based on previous experience of the designer. In general, these methods also have a limited efficiency because they heavily rely on trial and error. The project has therefore two objectives of equal importance:
1. The development of disruptive new optical design tools that are broadly applicable to optical design problems and that significantly increase design productivity and efficiency;
2. Advanced training through research and hands-on practice of highly skilled optical scientists given by leading European universities and European optical industries.

European academic and industrial partners that are leading in the research on new optical design methodologies and in designing advanced optical systems and components for modern industrial applications will work together in ADOPSYS. We will develop for the inverse problem of optical design new strategies that reduce the amount of human trial-and-error effort significantly, and will apply them to a wide variety of industrially relevant design problems including energy efficient lighting systems, high resolution systems and machine vision, inspection and safety.

The ADOPSYS partners together cover the complete modern field of optical modelling and design and its
applications, a coverage which no single European group or institute can provide alone. Therefore, the ADOPSYS team is ideally prepared for high level education and training during collaborative multidisciplinary research, research workshops in optical modelling and design, trainings in transferable skills and on-the-job training during secondments provided by the industrial partners, so that the ESR fellows will be optimally prepared for a successful career as optical scientists.

Field of Science

/socia sciences/economics and business/economics/production economics/productivity

Programme(s)

FP7-PEOPLE - Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)

Topic(s)

FP7-PEOPLE-2013-ITN - Marie-Curie Action: "Initial Training Networks"

Call for proposal

FP7-PEOPLE-2013-ITN

See other projects for this call

Funding Scheme

MC-ITN - Networks for Initial Training (ITN)

Coordinator

TECHNISCHE UNIVERSITEIT DELFT

Address

Stevinweg 1
2628 Cn Delft
Netherlands

Website

Contact the organisation

Administrative Contact

Paul Urbach (Prof.)

Participants (9)
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRIJE UNIVERSITEIT BRUSSEL</td>
<td>Belgium</td>
<td>€ 241 340</td>
<td>Pleinlaan 2 1050 Brussel</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
<tr>
<td>ITMO UNIVERSITY</td>
<td>Russia</td>
<td>€ 253 269,50</td>
<td>Kronwerkskiy Prosp 49 197101 St Petersburg</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
<tr>
<td>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS</td>
<td>France</td>
<td>€ 531 697,32</td>
<td>Rue Michel Ange 3 75794 Paris</td>
<td>Research Organisations</td>
</tr>
</tbody>
</table>
UNIVERSIDAD POLITECNICA DE MADRID
Spain

EU Contribution
€ 237 681,62

Address
Calle Ramiro De Maeztu 7
Edificio Rectorado
28040 Madrid

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

Administrative Contact
Roberto Prieto (Prof.)

FRIEDRICH-SCHILLER-UNIVERSITAT JENA
Germany

EU Contribution
€ 233 068,88

Address
Furstengraben 1
07743 Jena

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

Administrative Contact
Frank Wyrowski (Prof.)

OSRAM GMBH
Germany

EU Contribution
€ 233 068,88

Address
Marcel Breuer Strasse 6
80807 Munchen

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

Administrative Contact
Brigitte Walter (Mrs.)
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARL ZEISS AG</td>
<td>Germany</td>
<td>€ 233 068,88</td>
<td>Carl Zeiss Strasse 22 73447 Oberkochen</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>LIGHT PRESCRIPTIONS INNOVATORS EUROPE SL</td>
<td>Spain</td>
<td>€ 237 681,62</td>
<td>Campus De Montegancedo Upm - Edif Cedint S/N 28223 Pozuelo De Alarcon - Madrid</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>ITA-SUOMEN YLIOPISTO</td>
<td>Finland</td>
<td>€ 272 197,64</td>
<td>Yliopistonranta 1 E 70211 Kuopio</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
</tbody>
</table>

Website
Contact the organisation
Administrative Contact
Franz Grimmeisen (Mr.)
Ruben Mohedano (Dr.)
Juvaste Hannele (Dr.)