SEI IN 2013 - NEW DIRECTIONS

This PDF is a companion to our online annual report for 2013. The report offers a snapshot of a year in the life of SEI – a year of transition, of new directions and new partnerships.

In this PDF you can find key information about the institute and review our work in 2013 by browsing through the infographics. In our online annual report for 2013 you can also meet our staff, who tell their own stories on film; and explore our work on an interactive world map.

The map – which includes almost all of last year’s key activities and publications – allows you to make your own choice about which areas of our work you want to explore by navigating between topics and locations. The report is also illuminated by a set of superb images taken by renowned National Geographic photographer Mattias Klum.

If you want to explore the online report, just click the link below.

SEI ANNUAL REPORT 2013 ➔

SEI ANNUAL REPORT 2013 ➔
BRIDGING SCIENCE AND POLICY
SEI combines scientific research with policy analysis, turning knowledge into action by connecting its work to decision-makers and civil society, linking science with development, and promoting social and environmental sustainability.

We also take a highly collaborative approach: stakeholder involvement has always been at the heart of our efforts to build capacity, strengthen institutions, and equip partners for the long term.

HOW WE WORK
Our research tackles overarching issues such as climate change, energy systems, food security, water and urbanization, as well as specific problems like air pollution at the local level. In addition, SEI has developed modeling tools that help thousands of decision-makers and practitioners around the globe to make smarter decisions about water and energy use.

SEI convenes seminars and conferences that bring decision-makers, academics, and practitioners together to debate key issues and share knowledge. We also engage in and inform policy processes, development action, and business practice throughout the world.
OUR PEOPLE

Our 180 staff represent around 30 countries. In the video wall in the online report, some of our staff introduce themselves and talk about their work.

If you want to find out more about which researchers are connected to particular activities you can use the online interactive map: click on an item and select “read article”.

You can also click below to find contact information and short bios for our entire staff.

SEI IS:

- **international** – SEI is distributed across nine locations around the world. SEI works locally, regionally and globally, and has a diverse international staff
- **trusted** – both policy-makers and the academic community recognize us as an independent and non-partisan institute
- **credible** – our research is objective, and supported by a rigorous system of internal and external peer review
- **integrated** – Only joined-up research can solve joined-up problems. SEI places a strong emphasis on making connections across the natural, physical, and social sciences, allowing us to approach sustainability challenges from new angles and offer robust and insightful policy advice.
OUR WORK IN 2013

SEI works at the intersection of environment and development. We strive to take integrated approaches to research, practice and communications, and look at issues such as climate change, food security, water and energy in a joined up way.

The interactive map on our Annual Report 2013 web site visualizes thematic connections between our various activities by linking them on the basis of topics that they share in common. It gives you control over what aspects of our work you want to discover, and offers you the choice to go in unexpected directions.

We gathered our activities in 2013 under seven topics (see below), and the map shows where they are located and links between them: a connection is shown when items have two or more of the topics in common.
ENERGY:
Access to energy is vital for human development. At the same time, many of the ways that we use and produce energy are polluting, resource-hungry, and contribute to climate change.

SEI works towards a shift to a clean energy future, from the level of global policy through to household cooking, and on biofuels and energy planning and modelling.

Notable work on energy last year includes new research on the impacts of the Keystone XL pipeline in the U.S., analysis of the impacts of bioenergy projects in Tanzania and Indonesia, work on corporate accountability in biofuels production and on how energy access can play a key role as part of new Sustainable Development Goals.

ECOSYSTEMS:
Clean water, food, a balanced climate, soil fertility, good air quality, and natural resources and raw materials are just some of the benefits that ecosystems provide: sustainable development depends on functioning ecosystems.

We work at the intersection between human interests and healthy ecosystems to protect our wellbeing over the long term. Last year our research ranged from work with the Arctic council on ecological resilience in the region, a landmark assessment of the economic value of the world’s oceans, and support for the development of new sustainable development goals.
CLIMATE:

To make big cuts in greenhouse gas emissions we must transform our energy systems, how we use natural resources, and how we produce and consume goods and food. We will also need to adapt to the impacts of climate change, such as shifting seasonality and extreme weather events. SEI works towards a safer climate for all, focusing on effective, equitable ways to mitigate and adapt to climate change.

Explore the map to learn how last year we took steps to engage the business community on climate issues, developed practical guidance to guide decision-makers toward effective ways to adapt to climate change, and provided answers on how shifts in trade patterns can reduce greenhouse gas emissions.

AIR QUALITY:

Good air quality is vital to human health, agriculture, and functioning ecosystems, and air pollution can have a big impact on the climate. SEI has been a pioneer in the field for many years, revealing the impacts of air pollution from the local to global scales, and working towards solutions.

In 2013 we developed further evidence on how reducing ozone and soot in the air can boost crop yields. We also generated ideas for transforming the market for clean cookstoves in India, and, through the international Climate and Clean Air Coalition, demonstrated how our LEAP energy-planning tool can help countries develop policy to cut pollution.
**WATER:**

Water – the bloodstream of the biosphere – is fundamental to human development at all levels, from drinking water to irrigating crops and generating electricity. In a world in which there is increasing demand for limited supplies of water, and under shifting climate conditions, a key focus of SEI’s work is how to govern this precious resource in a connected way to ensure water, energy and food security for a world with nine billion people in 2050.

On the map you can find out about how we’ve developed a new tool to help planners in Africa use water better to increase food production, supported innovative sanitation projects in India, and put forward innovative approaches to flood risk in both Europe and Australia. Our research and engagement in water issues in the U.S. and Latin America has continued, as has our progressive work on integrating and applying our water and energy planning tools, WEAP and LEAP.

**FOOD SECURITY:**

World population is likely to reach nine billion by 2050. How do we achieve food security for all in a sustainable way? The answer depends on how equitably and efficiently we manage land, water and other natural resources, how effectively we adapt to and mitigate climate change, and how we deploy technology.

Last year SEI examined how forests are critical to food security, revealed how smallholders in the Amazon could efficiently manage land and maintain environmental stability, and worked to integrate land-use issues into the ‘nexus’ concept. Explore the map to find out more.
CITIES:
The UN has projected that more than 65% of the world’s population will live in urban areas by 2050, with the rate of change especially fast in the developing world. This shift has major implications for how we use and consume resources and for energy, water and sanitation. At the same time, urbanization could also bring a range of potential benefits, especially efficiency gains.

Last year our innovative work at the urban scale included measuring the water footprints of Delhi, Lagos and Berlin, developing approaches for deep GHG reductions at the city scale, and new research on the impact of green space on city dwellers.
2013 IN FACTS & FIGURES
The infographics on the following pages highlight key events in our year in research, communications, partnerships and projects.
IN 2013
SEI RESEARCHERS
PUBLISHED
MORE THAN 180
RESEARCH
PUBLICATIONS

SEI AFRICA
MOVED TO
NAIROBI
TO BE CLOSER TO
KEY STAKEHOLDERS

SEI PRODUCED
AN ANIMATED FILM
for the
BALTIC
COMPASS
PROJECT

SEI PLACED
2nd
AMONG
WORLD’S
ENVIRONMENT
THINK TANKS

A NEW BOOK
FROM SIANI
ON GENDER IN AFRICA
ON EMPOWERING
WOMEN FARMERS
IN THEIR FAMILIES,
COMMUNITIES AND
IN PUBLIC POLICY

NEW HQ IN
STOCKHOLM

SEVERE FLOODS
IN EUROPE
NEW SOLUTIONS AND APPROACHES
HOW CAN SWEDEN REACH ITS TARGET OF ZERO NET EMISSIONS IN 2050?

SEI STAFF, TOGETHER WITH THE NASA GODDARD INSTITUTE FOR SPACE STUDIES, MADE A SOUND PICTURE OF OZONE CONCENTRATIONS AROUND THE WORLD.

ALONGSIDE THE IPCC FIFTH ASSESSMENT REPORT, SEI, THE HAGA INITIATIVE & NORDEA HOSTED A SEMINAR ON CORPORATE RESPONSES TO CLIMATE CHANGE.

SEI AND PARTNERS PUT ON A STAGE SHOW FOR THE KING OF SWEDEN AT STOCKHOLM’S ROYAL DRAMATIC THEATRE REVIEWING 4 DECADES OF ENVIRONMENTAL HISTORY.

THE NEW TAGMI TOOL HELPS PLANNERS IN AFRICA FIND THE BEST OPTIONS FOR WATER USE TO BOOST AGRICULTURAL YIELDS.

THROUGH THE OPAL PROJECT, SEI DEVELOPED A WEBSITE FOR RECORDING WILDLIFE ON THE UNIVERSITY OF YORK CAMPUS.
SEI PARTNERS WITH THE BILL & MELINDA GATES FOUNDATION TO PROMOTE DEBATE ON IMPROVING SANITATION

NEW PARTNERSHIPS WITH ENVIRONMENT INSTITUTES IN CHINA, S. KOREA, COLOMBIA

400ppm A HISTORIC THRESHOLD FOR CLIMATE SCIENCE

HOW TO MOBILIZE BOTH BUSINESS AND THE PRIVATE SECTOR TO TAKE STRONG ACTION ON CLIMATE AND SUSTAINABILITY:

1. STOP FIGHTING
2. STOP BLAMING CONSUMERS
3. THINK LONGER TERM.
4. POLICYMAKERS: DON’T SUBSIDIZE BAD IDEAS
NEW MODELING TOOL LINKS CONSUMPTION TO IMPACTS ON BIODIVERSITY

WORKED WITH THE IRF TO SUPPORT THE DRAFTING OF THE SUSTAINABLE DEVELOPMENT GOALS

NEW DATA SHOWS HOW HEAT WAVES LEAD TO POLLUTION BECAUSE HEAT-STRESSED PLANTS ABSORB LESS OZONE

JOINED THE NEW CLIMATE ECONOMY PROJECT led by FORMER PRESIDENT OF MEXICO FELIPE CALDERÓN, WITH GOVERNMENT, BUSINESS AND FINANCE LEADERS FROM 14 COUNTRIES
MEDIA OUTREACH 2013
BY COUNTRY

SINGAPORE
TAIWAN
VENEZUELA
INDIA
SWEDEN
SOUTH AFRICA
CHINA
BELGIUM
SWITZERLAND
INDIA
SOUTH AFRICA
THAILAND
UNITED KINGDOM
UNITED STATES
USA
SINGAPORE
TAIWAN
VENEZUELA
CHINA
SWITZERLAND
UNITED KINGDOM
UNITED STATES
AUSTRALIA
DENMARK

SEI ANNUAL REPORT 2013
Our finances continued to strengthen in 2013, not least because of the Swedish Government’s decision to continue the increase in core support, from SEK 17 million in 2012 to SEK 27 million.

This investment has allowed us to further improve our core functions, take on new staff, and allowed investment in high profile areas of policy and research, in particular the Climate and Clean Air Coalition and the New Climate Economy project.

Another success in 2013 was that SEI Asia secured our first regional framework agreement with a bilateral donor (Sida). SEI York’s financial situation was also much improved.

Taken together, these developments have made it possible to embark on a more ambitious growth plan for recruitment and investment.

The charts below provide a broad overview of SEI’s finances in 2013, compared with the previous year. If you are interested in our full financial report and a list of funders and partners, you can find it on our website here:
### SEI Research Funding in 2013
#### SEI Global Pro Forma

<table>
<thead>
<tr>
<th>CENTRES</th>
<th>RESEARCH FUNDING IN SEK MILLIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEI Africa</td>
<td>2% 2.3</td>
</tr>
<tr>
<td>SEI Asia</td>
<td>6% 9.0</td>
</tr>
<tr>
<td>SEI Tallinn</td>
<td>5% 6.9</td>
</tr>
<tr>
<td>SEI York</td>
<td>13% 20.0</td>
</tr>
<tr>
<td>SEI Oxford</td>
<td>4% 5.7</td>
</tr>
<tr>
<td>SEI Stockholm/HQ</td>
<td>53% 78.8</td>
</tr>
<tr>
<td>SEI US</td>
<td>18% 27.3</td>
</tr>
<tr>
<td><strong>100%</strong></td>
<td><strong>150</strong></td>
</tr>
</tbody>
</table>

### SEI Research Funding in 2012
#### SEI Global Pro Forma

<table>
<thead>
<tr>
<th>CENTRES</th>
<th>RESEARCH FUNDING IN SEK MILLIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEI Africa</td>
<td>2% 2.4</td>
</tr>
<tr>
<td>SEI Asia</td>
<td>7% 9.1</td>
</tr>
<tr>
<td>SEI Tallinn</td>
<td>5% 6.8</td>
</tr>
<tr>
<td>SEI York</td>
<td>14% 19.6</td>
</tr>
<tr>
<td>SEI Oxford</td>
<td>4% 6.0</td>
</tr>
<tr>
<td>SEI Stockholm</td>
<td>48% 67.3</td>
</tr>
<tr>
<td>SEI US</td>
<td>20% 27.8</td>
</tr>
<tr>
<td><strong>100%</strong></td>
<td><strong>139</strong></td>
</tr>
</tbody>
</table>
### 2013 Sources of Finance by Sector

<table>
<thead>
<tr>
<th>Source</th>
<th>%</th>
<th>SEK Millions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bilateral Agencies</td>
<td>27%</td>
<td>40.3</td>
</tr>
<tr>
<td>Foundations</td>
<td>9%</td>
<td>13.7</td>
</tr>
<tr>
<td>Government</td>
<td>37%</td>
<td>56.1</td>
</tr>
<tr>
<td>Research Inst. &amp; NGOs</td>
<td>3%</td>
<td>4.5</td>
</tr>
<tr>
<td>Multilateral Agencies</td>
<td>15%</td>
<td>22.3</td>
</tr>
<tr>
<td>Private Sector</td>
<td>4%</td>
<td>6.6</td>
</tr>
<tr>
<td>Universities</td>
<td>1%</td>
<td>1.3</td>
</tr>
<tr>
<td>Banks &amp; Financial Inst.</td>
<td>4%</td>
<td>5.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100%</td>
<td>150</td>
</tr>
</tbody>
</table>

### 2012 Sources of Finance by Sector

<table>
<thead>
<tr>
<th>Source</th>
<th>%</th>
<th>SEK Millions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bilateral Agencies</td>
<td>30%</td>
<td>42.2</td>
</tr>
<tr>
<td>Foundations</td>
<td>7%</td>
<td>9.9</td>
</tr>
<tr>
<td>Government</td>
<td>30%</td>
<td>42.0</td>
</tr>
<tr>
<td>Research Inst. &amp; NGOs</td>
<td>6%</td>
<td>8.0</td>
</tr>
<tr>
<td>Multilateral Agencies</td>
<td>15%</td>
<td>21.2</td>
</tr>
<tr>
<td>Private Sector</td>
<td>9%</td>
<td>12.4</td>
</tr>
<tr>
<td>Universities</td>
<td>1%</td>
<td>1.1</td>
</tr>
<tr>
<td>Banks &amp; Financial Inst.</td>
<td>1%</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100%</td>
<td>139</td>
</tr>
</tbody>
</table>
SEI STOCKHOLM:
Visiting & packages:
Linnégatan 87D
115 23 Stockholm
Sweden

Letters:
Box 24218
104 51 Stockholm
Sweden
Tel: +46 8 30 80 44

SEI YORK:
Grimston House University of York
Heslington
York, YO10 5DD
UK
Tel: +44 1904 432897

SEI OXFORD:
Florence House 29 Grove Street
Summertown
Oxford
OX2 7JT
UK
Tel: +44 1865 426316

SEI TALLINN:
Lai str 34
Tallinn
10133
Estonia
Tel: +372 6 276 100

SEI US:
11 Curtis Avenue
Somerville, MA 021441224
USA
Tel: +1 (617) 6273786

California office
Tel: +1 (530) 7533035

Seattle office
Tel: +1 (206) 5474000

SEI ASIA:
15th Floor, Witthayakit Building,
254 Chulalongkorn University,
Chulalongkorn Sai 64,
Phyathai Road, Pathumwan,
Bangkok, 10330
Thailand
Tel: +66 225 144 15

SEI AFRICA:
World Agroforestry Centre
United Nations Avenue, Gigiri
P.O. Box 30677
Nairobi, 00100, Kenya
Tel: +254 207 224 886