

# Global Footprint Network **ANNUAL REPORT**

2014





**Global Footprint Network**  
Advancing the Science of Sustainability

**Our mission** is to help end ecological overshoot by making ecological limits central to decision-making. By promoting data, tools, and analysis linking resource constraints to economics and well-being, Global Footprint Network influences major investments and policy shifts to support global sustainability.

**Our vision** is that all people can live well, within the means of nature.





**SINCE OUR INCEPTION  
IN 2003, WE'VE ENGAGED**

**IN 68 COUNTRIES**

**ON 6 CONTINENTS**

**TO MAKE ECOLOGICAL  
LIMITS CENTRAL TO  
DECISION-MAKING.**





# NATIONAL POLICY & DECISION MAKING

The Ecological Footprint enables national governments to measure and manage their country's ecological assets. By identifying risks associated with ecological deficits, Ecological Footprint accounting helps decision-makers set policy that safeguards resources and enhances economic prosperity.

The foundation of all Ecological Footprint accounting at the national level is based on our National Footprint Accounts, which track human demand on nature and our planet's capacity to meet that demand for more than 200 nations. The Footprint Accounts use more than 6,000 data points per country per year.



## Featured Country: Switzerland

**In September 2014 we published the “Significance of Global Resource Availability to Swiss Competitiveness,”** a report commissioned by five Swiss government agencies and co-produced with BAKBASEL. We found that Switzerland's relative income has been decreasing compared to the world. The Swiss resident now takes home a 35 percent smaller share of global income than 20 years ago, or less than 50 percent of the share 35 years ago.

# 2014 BY THE NUMBERS

AUSTRIA  
BANGLADESH  
BHUTAN  
BRAZIL  
CHINA  
COLOMBIA  
COSTA RICA  
CROATIA  
DENMARK  
ECUADOR  
FINLAND  
FRANCE  
GABON  
GREECE  
HUNGARY  
INDIA  
INDONESIA  
ITALY  
JAPAN  
SOUTH KOREA  
KUWAIT  
LIECHTENSTEIN  
MEXICO  
MOROCCO  
MOZAMBIQUE  
NORWAY  
PERU  
PHILIPPINES  
PORTUGAL  
QATAR  
ROMANIA  
RUSSIA  
SPAIN  
SWITZERLAND  
TUNISIA  
TURKEY  
UNITED ARAB EMIRATES  
UNITED KINGDOM  
UNITED STATES

# NATIONAL POLICY & DECISION MAKING

## 2014 BY THE NUMBERS

# 21 Engagements with International Organizations



Arab Forum For  
Environment and  
Development (AFED)  
African Development Bank  
Asian Development Bank  
(ADB)  
Association of Southeast  
Asian Nations (ASEAN)  
Community of Andean  
Nations  
Comunidad Andena  
Fomento  
European Environment  
Agency  
European Union (EU)  
Directorate General -  
Environment

EU Directorate General -  
Research  
EU Parliament  
Interamerican Development  
Bank  
International Organisation  
of La Francophonie  
International Union for  
Conservation of Nature  
(IUCN)  
The London Group (SEEA)  
Organisation for Economic  
Co-operation and  
Development (OECD) -  
Development Assistance  
Committee  
OECD - Green Growth

UN Commission on  
Sustainable Development  
UN Convention to Combat  
Desertification  
UN Development  
Programme (UNDP)  
UN Environment  
Programme (UNEP)  
UNEP Convention on  
Biological Diversity  
UNEP Department of Early  
Warning and Assessment  
UNEP Finance Initiative  
(UNEP FI)  
UNEP Green Economy  
UNEP Mediterranean  
Action Plan

UNEP Sustainable  
Consumption and  
Production  
UNEP The Economics of  
Ecosystems and  
Biodiversity (TEEB)  
UNEP World Conservation  
Monitoring Centre -  
Biodiversity Indicators  
Partnership (BIP)  
UN Statistics Division -  
System of Environmental-  
Economic Accounting  
(SEEA)

# METRICS FOR CITIES AND LOCAL GOVERNMENTS

Cities that make investments to improve the well-being of their citizens while maintaining or even expanding their natural capital will be more resilient amid growing resource constraints. Global Footprint Network supports local and regional leaders in making fiscally responsible, sustainable investments for a prosperous future. Communities and city planners around the globe use our tools to guide land use and budget decisions, track sustainability progress, and support better sustainability policy and actions.



## **Featured City: Calgary**

Calgary applied the Ecological Footprint methodology to land-use planning, including proposed downtown redevelopment. In a comparison of four scenarios, Calgary's Footprint analysis found mobility a policy priority and called for a multi-modal transportation system and improved jobs-to-housing balance to reduce the city's Ecological Footprint from 8.5 global hectares (gha) to the Canadian national average of 7.25 gha by 2036.



# METRICS FOR CITIES AND LOCAL GOVERNMENTS

## **Net Present Value Plus (NPV+) pilot in the State of Maryland**

NPV+ expands on familiar net present value analysis by including un-priced factors such as the cost of environmental degradation and benefits like ecological resiliency. NPV+ also uses multiple scenarios and discount rates to create a more realistic context for capital decisions.

With the support of Maryland Gov. Martin O'Malley, Global Footprint Network used NPV+ to analyze three state projects: land conservation, a weatherization program and fleet vehicle purchases. The analysis helped provide the basis for one of O'Malley's last executive orders, which directed the state to buy more zero emissions vehicles.





# METRICS FOR CITIES AND LOCAL GOVERNMENTS

## 2014 BY THE NUMBERS

# 11 Sub-national engagements



City of Barcelona, Spain

City of Calgary, Canada

City of Lyon, France

City of Natal, Brazil

City of Tel Aviv, Israel

Environmental Protection

Agency Region 1, USA

Province of Guizhou, China

Province of Ontario, Canada

State of Acre, Brazil

State of Maryland, USA

# FINANCE FOR CHANGE

Resource constraints can affect the economic performance of entire countries, and consequently countries' ability or willingness to pay back its debts. To date, however, the risks of resource constraints have been largely overlooked in the \$41 trillion sovereign bond market.

Our ERISC (Environmental Risk Integration in Sovereign Credit) methodology aims to fill this gap by identifying the economic risks that a country is exposed to as a result of its pattern of natural resource consumption, including risks related to stranded assets, degradation and trade.



## ERISC Phase II Launch

Global Footprint Network and UNEP FI (UN Environment Programme Finance Initiative) launched ERISC Phase II in London with seven financial institutions. This second phase of research will measure the trade-related risks of countries, with a special focus on food.



# FINANCE FOR CHANGE

## **New stranded assets research**

Our team began a new stream of research focused on estimating the risk exposure of national economies to the loss of carbon-intensive assets, including power plants, vehicle fleets and factories. Such assets stand to lose value as the economic structures of nations evolve in order to stay within 2-degree warming limit recommended by scientists. Our research aims to identify and rank countries based on their varied exposure to this risk of asset stranding.



# FINANCE FOR CHANGE

## 2014 BY THE NUMBERS

**7 Finance institutions participated**



**in Phase II of the Environmental Risk in Sovereign Credit (ERISC) Initiative**

Caisse des Dépôts  
Colonial First State  
European Investment Bank  
HSBC Bank  
Kempner & Co Merchant Bank  
KfW Development Bank  
Standard & Poor's

**7 Finance institutions license**



**and/or use Ecological Footprint data in their investment models**

AXA Investment Managers  
Bloomberg  
MSCI  
Notenstein Privatbank  
Oddo Securities  
Pictet Bank  
Sustainalytics



# HUMAN DEVELOPMENT INITIATIVE

Sustainable human development is successful only when it improves citizens' well-being without degrading the environment. Global Footprint Network is developing a new tool, called Sustainable Development Return on Investment (SDROI), to measure how much lasting development a project generates. By using SDROI before, during and after interventions, donor agencies and organizations can ultimately identify the per-dollar impact of their investment. The tool also will empower local communities to own, negotiate and manage their own socioeconomic development.



## **Sustainable Development Pilot Project in India**

In partnership with IDE-India, Gram Vikas and Fundación Escuela Nueva, Global Footprint Network is testing the SDROI tool in nearly a dozen villages in the state of Odisha, India. The pilot includes local bottom-up household Footprint analysis, but ultimately SDROI will be able to scale to larger populations and regions.

# 2014 BY THE NUMBERS

## 2 Awards

Susan Burns, CEO and Mathis Wackernagel, President, Inducted into the **Sustainability Hall of Fame** - International Society of Sustainability Professionals (ISSP)

**The Global Journal "Top 100 NGOs 2014"**  
(for third year in a row)



# 392

**Data licenses**  
in 66 countries

# 1



# Million

Unique users of the  
**Footprint calculator**  
in 146 countries  
[footprintnetwork.org/calculator](http://footprintnetwork.org/calculator)

# 7



**Academic  
papers**



# 78 PARTNERS IN 26 COUNTRIES

## WORKING TO ACHIEVE LARGE-SCALE CHANGE

### Government Agencies

Abu Dhabi Global  
Environmental Data  
Initiative  
City of Calgary  
ICLEI Local Governments  
for Sustainability  
Welsh Assembly  
Government  
Zero Waste SA  
(South Australia)

### Consultancies

Agenda 21 Consulting  
Best Foot Forward  
Centro Nacional de  
Consultoría  
Centro de Estudos e  
Estratégias para a  
Sustentabilidade  
DANDELION  
Environmental Consulting  
and Service Ltd.  
Ecolife  
EcoMark  
EcoRes  
Ecosistemas Design  
Ecológico  
EcoSTEPS  
Estudio MC  
Footprint Consult E.U.  
Info Grafik Inc.  
IDEA Consultants Inc.  
Libélula  
Natural Logic, Inc.  
Paul Wermer Sustainability  
Consulting  
Punto 3 Srl  
RECYCLA Chile  
Sustentator  
The Footprint Company

### Educational Institutions

Agrocampus Ouest  
Cardiff University – Centre  
for Business Relationships,  
Accountability  
Sustainability and  
Society (BRASS)  
British Columbia Institute  
of Technology – School  
of Construction and  
Environment  
Centre d'étude et de Recherche  
Appliquée à la Gestion  
Charles University  
Environment Center  
Corvinus University of  
Budapest  
Ecole Nationale Supérieure  
des Mines de Saint-Étienne  
Gujarat Institute for  
Development Research  
Instituto Nacional de  
Tecnología Industrial  
Maastricht University  
Pontifical Catholic  
University of Peru  
University of Genoa –  
Department for the Study  
of Territory and its  
Resources  
University of Siena –  
Ecodynamics Group

### Corporations

Bank Sarasin  
Barilla  
Pictet Group  
Portfolio 21 Investments, Inc.

### NGOs

Agir21  
ALISOS – Alianzas para la  
Sostenibilidad  
BioRegional Development  
Group  
Climact  
Confederation of Indian  
Industry (CII)  
Dutch Footprint Group –  
Werkgroep Voetafdruk  
Nederland  
Earth Day Network  
Ecological Footprint Japan  
Eco-Norfolk Foundation  
Emirates Environmental  
Group  
Emirates Wildlife Society /  
WWF  
Foundation for Global  
Sustainability  
Fundación Amigos de la  
Naturaleza  
Fundación Neotrópica  
– Costa Rica  
Globexs

Innovation for Sustainable  
Development Association  
Instituto Jatobás  
Instituto Ricerche Economiche  
e Sociali del Piemonte  
Korea Institute Center for  
Sustainable Development  
KÖVET Association for  
Sustainable Economies  
Millennium Institute  
New Economics  
Foundation (nef)  
One Earth Initiative  
Platform Footprint  
Population Matters  
Pronatura Mexico  
Sentido Verde  
Sustainable Europe  
Research Institute (SERI)  
The Natural Step  
International  
The Sustainable Scale  
Project  
The Web of Hope  
Utah Population and  
Environment Coalition  
Water Footprint Network  
WWF – International  
WWF – Japan

# THANK YOU FOR YOUR GENEROUS DONATIONS

RECEIVED JANUARY 1, 2014 – DECEMBER 31, 2014

## Foundations

Bannister/Watanabe Fund  
Barr Foundation  
Benevity Community Impact Fund  
Dudley Foundation  
Fidelity Charitable Gift Fund  
Flora Family Foundation  
Foundation for Human Conservation  
Lawrence Foundation  
MAYA Stiftung  
Mental Insight Foundation  
Overlook International Foundation  
Pittsburgh Foundation  
Rockefeller Foundation  
San Francisco Foundation  
Skoll Foundation  
Stiftung Procare  
Tellus Mater Foundation  
Tides Foundation  
UsitawiNetwork Foundation  
Winslow Foundation

## Government Agencies

City of Guelph, Canada  
Environment Agency Abu Dhabi  
Nordic Council of Ministers  
Regional Environmental Center  
Zero Waste SA, Australia

## Educational Institutions

Cornell University  
Research Institute for Humanity and Nature (RIHN)  
University of Barcelona  
University of St Andrews, Scotland

## Corporations

INFRAS  
Maar Consulting  
RVR Service AG  
Solvay  
Stein Design

## NGOs

Advocates for a Sustainable Albemarle Population  
BioRegional Development Group  
Maximo T. Kalaw Institute for Sustainable Development  
Network for Good  
Secretariat of the Pacific Regional Environment Programme  
YouthBuild USA

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**Peter Raven**, Former President, AAAS

**William E. Rees**, Co-creator of the Ecological Footprint

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**Emil Salim**, Former Indonesian Minister of State

**James Gustave Speth**, Former Dean, Yale School of Forestry and Environmental Studies

**Will Steffen**, Executive Director, Australian National University, Climate Change Institute

**David Suzuki**, Award-winning scientist and broadcaster

**M.S. Swaminathan**, India's leading scientist on sustainable food security

**Ernst Ulrich von Weizsäcker**, Founder, Wuppertal Institute

**Dominique Voynet**, Former Environment Minister, France, and Former Mayor, Montreuil

**E.O. Wilson**, Distinguished biologist, Harvard University



# WHO WE ARE

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Paul Wermer

# WHO WE ARE

## CLIENTS

### Government agencies

County Council of Biscay  
City of Calgary  
Ecuador Ministry of the Environment  
European Environment Agency (EEA)  
Ontario Ministry of Natural Resources and Forestry  
United Nations Environment Programme (UNEP)  
United States Environmental Protection Agency (EPA)  
Office of Research and Development

### Educational institutions

Cornell University  
Ewha Womans University  
Maastricht University  
McGill University  
University of Liechtenstein  
Zurich University of the Arts

### Consultancies

BAK Basel Economics  
Ecosystemas Design Ecológico  
Footprint-Consult E.U.  
IDEA Consultants Inc

## NGOs

Ecolife  
Emirates Wildlife Society-WWF  
Fundação Roberto Marinho  
WWF-China  
WWF-Hong Kong  
WWF-International  
WWF-Japan  
WWF-Russia

### Corporations

Ernst & Young  
Notenstein Privatbank AG  
Rand Corporation

## CONTRIBUTORS

### Advice and services

Active Ingredients  
Anomi Studio  
Bob Dinetz Design  
Bullfrog Films  
Cosmetto  
Julie Curry  
Emily Daniel  
Earth Economics  
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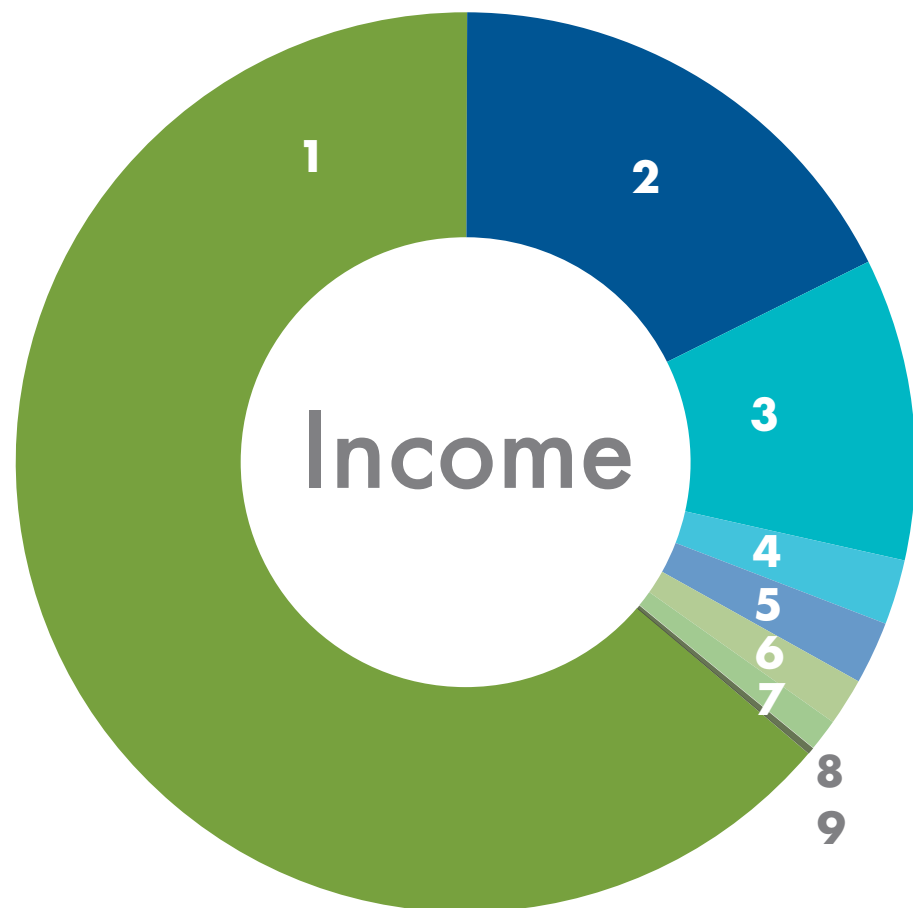
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**INCOME** | JANUARY 1, 2014 – DECEMBER 31, 2014



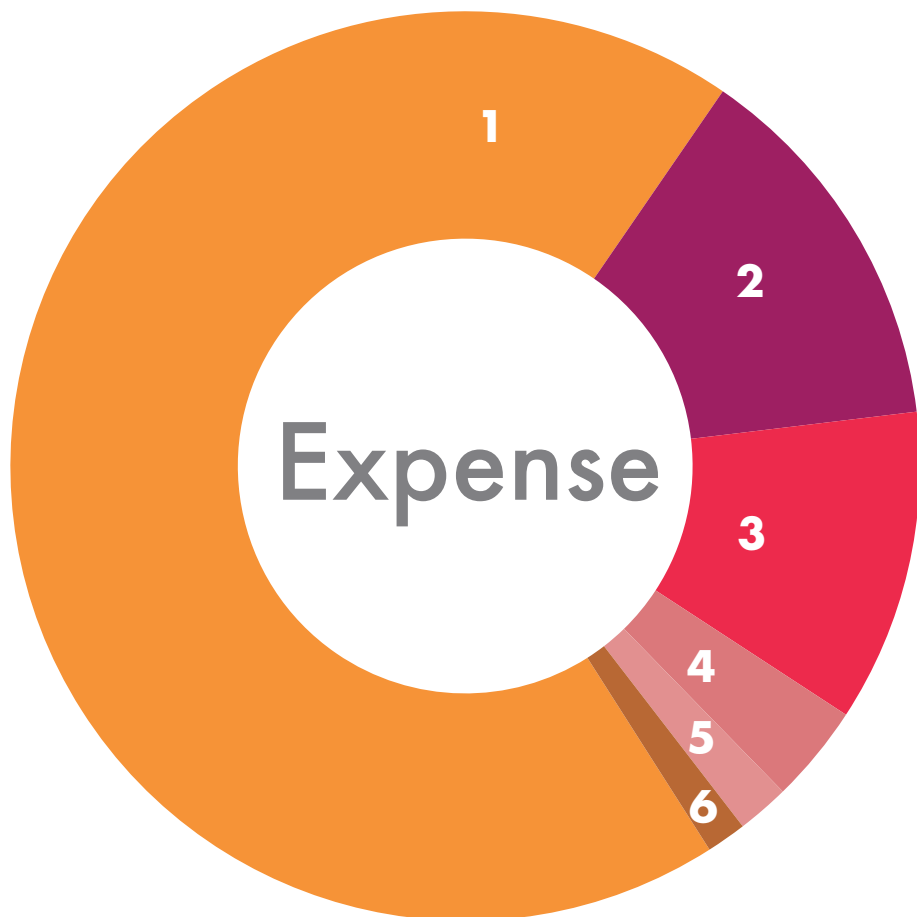
ALL VALUES SHOWN IN U.S. DOLLARS

1 - Foundations	\$2,563,890
2 - Fee for Service	\$390,041
3 - Individual Contributions	\$293,597
4 - License Fees	\$81,841
5 - In-kind Contributions	\$130,246
6 - Interest, Dividends, Unrealized Gains	\$8,498
7 - Speaking Honoraria	\$9,245
8 - Reimbursed Expenses	\$24,789
9 - Royalties	\$200
<b>Total Income</b>	<b>\$3,493,849</b>

*Consolidated across Swiss, U.S. and Belgian entities.*

# FINANCIALS

**EXPENSES** | JANUARY 1, 2014 – DECEMBER 31, 2014



ALL VALUES SHOWN IN U.S. DOLLARS

1 - Payroll & Personnel Expenses	\$2,014,747
2 - Operations	\$383,712
3 - Professional Fees	\$686,847
4 - Program Expenses	\$154,034
5 - Computer-Related Expense	\$37,779
6 - Travel	\$134,293
<b>Total Expense</b>	<b>\$ 3,402,914</b>

*Consolidated across Swiss, U.S. and Belgian entities.*





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Advancing the Science of Sustainability

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