

# LETTER FROM THE CEO

**We entered 2016 with a new sense of optimism** following the approval of the historic Paris Climate Accord in December 2015. Building on this momentum, we had a very productive year, completing several projects with a number of longtime collaborators, including World Wildlife Fund, the United Arab Emirates, and UN Environment Programme Finance Initiative.

Thanks to a second phase of work with WWF Russia in 2016, the city of Moscow committed to using the Ecological Footprint as a long-term sustainability indicator. The newly established WWF Korea raised its profile and heightened sustainability awareness across many audiences through the launch of its first Korea Footprint Report, which we co-authored. We also contributed to WWF International's biennial Living Planet Report for the ninth time.

Our Finance for Change Initiative firmly established Global Footprint Network as a leader in incorporating climate risk into sovereign bond investing through the launch of two major pieces of work: ERISC PHASE II: How food prices link environmental constraints to sovereign credit risk with UNEP FI and Carbon Disclosure for Sovereign Bonds with South Pole Group. Both reports involved insightful collaborations with numerous financial industry leaders, including BlackRock, S&P Global Ratings, and HSBC.

We concluded the year with three priorities that we are pursuing in 2017 and beyond:

- Modernizing our Ecological Footprint Calculator
- Launching a new open data platform
- Scaling Earth Overshoot Day

We are proud of our efforts in 2016 contributing to a sustainable, carbon-neutral world as envisioned by the Paris Climate Accord. With the help of generous donors, we believe a razor-sharp focus on our three major priorities in 2017 will move us and the world closer to achieving humanity's vision as expressed by the UN Sustainable Development Goals and the Paris Climate Accord.



With warmest wishes,
Mathis Wackernagel, Ph.D.

CEO and Co-founder

Mathis Washernage!



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

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



# **2016 HIGHLIGHTS**

10

Major engagements, including national studies, subnational studies, and international collaborations.





5+4+1

**Countries** 

**Subnational Assessments** 

Living Planet Report

# **NATIONAL POLICY & DECISION-MAKING**

Global Footprint Network helps national governments understand and manage their natural resources, make confident policy decisions, and create a prosperous future.

## Montenegro

Global Footprint Network assisted Montenegro's Ministry of Sustainable Development and Tourism in developing a monitoring framework for the country's National Strategy for Sustainable Development (NSSD 2030), which was adopted by the government in summer 2016. NSSD 2030 sets up a visionary agenda for sustainability that is centered on the Sustainable Development Goals adopted by the United Nations in September 2015. Global Footprint Network's work on the NSSD 2030 followed its analysis of Montenegro's Ecological Footprint, which found that Montenegro is currently using 45% more from nature than the nation's ecosystems can regenerate.

## **Switzerland**

As the Swiss debated a historic green economy vote, Global Footprint Network hosted a series of workshops with dozens of stakeholders to explore the challenges of achieving one planet living in the areas of food, energy, and resource security. We also published a manifesto called "Watch out, dear Switzerland" (achtung-schweiz.org) that outlines how to achieve a successful future for Switzerland and identifies tools to set priorities and identify winning strategies.

## Russia

Global Footprint Network and WWF Russia co-authored a second, more detailed Footprint Report on the Russian provinces and launched it at an event in Moscow that attracted representatives from 37 federal provinces. The event also featured a commitment from Moscow officials to use the Footprint as a long-term planning indicator. The work paved the way for deeper engagement in Russia in 2017. The report noted that Russia's ecological reserve declined 16 percent since 2009, potentially signaling the start of a troubling trend. It broke down the Ecological Footprint for 83 provinces by 12 household consumption categories and biocapacity by six main land types.

### Korea

WWF Korea, one of the youngest national offices in the WWF network, turned to Global Footprint Network to lead the creation of the first report on the Ecological Footprint of Korea to raise sustainability awareness among government and business leaders as well as the general public. One key finding: Korean residents, on average, have an Ecological Footprint eight times larger than what their country's ecosystems can provide. The report launched on Earth Overshoot Day 2016 and was featured in a subsequent successful event with Jorgen Randers, co-author of *Limits to Growth*.

# **NATIONAL POLICY & DECISION-MAKING**

# **30** Engagements with International Organizations



Arab Forum For Environment and Development (AFED)

Asian Development Bank (ADB)

Association of Southeast Asian Nations (ASEAN)

Center for Mediterranean Integration (CMI)

C.I.H.E.A.M (Centre International de Hautes Études Agronomiques Méditerranéennes) - Bari

École de technologie supérieure – Montreal (Canada)

**European Environment Agency** 

**EU Parliament** 

**Gram Vikas** 

India Institute of Technology-Guwahati

Inter-American Development Bank International

IDE-India

International Union for Conservation of Nature (IUCN)

IPBES Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO-ECSDE)

Organisation of La Francophonie

Plan Bleu

Tour Du Valat

Union for the Mediterranean (UfM)

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 Mediterranean Action Plan, Regional Activity Center on Sustainable Consumption and Production (SCP/RAC)

UNEP The Economics of Ecosystems and Biodiversity (TEEB)

UNEP World Conservation Monitoring Centre - Biodiversity Indicators Partnership (BIP)

**UNESCO** Venice Office

UN Statistics Division - System of Environmental Economic Accounting (SEEA)

# METRICS FOR CITIES AND LOCAL GOVERNMENTS

The global effort for sustainability will be won, or lost, in the world's cities, where 70 to 80 percent of the world's population is expected to live by 2050. Global Footprint Network has helped leaders in city and regional government around the world track natural resource demands to guide policy decisions for a sustainable future.

## **Creating an Eco-Civilization**

Creating an economy that operates in harmony with nature is the centerpiece of China President Xi Jinpig's vision of transforming the world's most populous country into an ecological civilization. Can China become such a civilization? To find out, we collaborated with the Province of Guizhou on an Ecological Footprint Report, which was launched at the EcoForum Global conference in Guiyang. The collaboration was funded by the Swiss government. Guizhou, China's most biodiverse and mountainous province, shares geographic similarities with Switzerland and is seeking to emulate Swiss success in developing a resource-efficient, tourist-friendly, and prosperous economy.

The Footprint analysis found that Guizhou has the sixth-lowest per person Ecological Footprint, at 1.72 global hectares per capita, and the fifth-lowest per person income (18,700 yuan) among China's provinces. On the Human Development Index, Guizhou's score was calculated to be 0.62, which is below the goal of 0.7 for high development and below the 0.73 average in China. By aiming to increase income through improvements in efficency, Guizhou is an ideal province to pilot ecological civilization development because it can build an economy that invests and builds upon its unique natural resources: a rich biodiversity and beautiful mountainous landscapes.



# FINANCE FOR CHANGE

**Our Finance for Change** Initiative seeks to transform the financial system so that climate change and resource constraints are better integrated by investors. Through groundbreaking research and strong industry collaboration, we have become a leading voice guiding investors and credit rating agencies to recognize the links between the environmental and economic risks of countries and to incorporate those risks into sovereign bond investing.

www.footprintfinance.org

## **New Research on Food Price Shocks**

Population growth and changing diets are creating strains on the food system.

Our report, *ERISC Phase II: How food prices link environmental constraints to* 

sovereign credit risk, showed how differently food price shocks driven by environmental trends would affect the economies of 110 countries. If global food prices double, as they did in 2008, then China could lose \$161 billion in GDP and India could lose \$49 billion. However, the biggest effects would be felt in low-income countries, according to our findings. Collaborators included the UNEP Finance Initiative, S&P Global Ratings, and HSBC.



## **Carbon Disclosure for Sovereign Bond Investors**

Working with 10 finance industry leaders, Global Footprint Network developed an approach for investors to disclose and manage carbon exposure in their sovereign bond holdings. The lack of a methodology has been a major obstacle to investors assessing such risk. The results were in published a report titled *Carbon Disclosure and Climate Risk in Sovereign Bonds*. In addition to recommending a

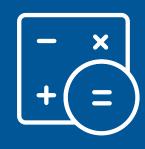
specific methodology, the report also outlines a dashboard of indicators to identify and manage carbon transition and climate risks. Launched in December, the report was followed by a webinar with Principles for Responsible Investment (PRI) in January 2017 that attracted nearly 100 attendees.



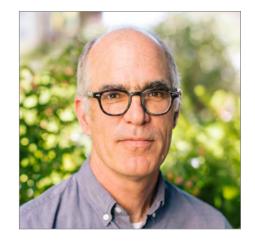
# **ECOLOGICAL FOOTPRINT CALCULATOR**

The Ecological Footprint Calculator is our most widely used sustainability tool. Available in 12 languages, our Footprint Calculator lets users measure their demand for our planet's renewable natural resources and then allows them to explore ways to reduce it. In 2016, we focused on redesigning the calculator for mobile devices.

million users of the Footprint Calculator



in 216 countries



"I've used the Footprint Calculator in a mix of classes—undergrad and graduate and an ecology class for non-majors—to get students to think about how they impact the globe and its ecosystems. It's super-useful. Most people I know who teach ecology use it in some way."

John Callaway

Professor and Graduate Program Director for MS in Environmental Management, University of San Francisco

www.footprintcalculator.org



**Earth Overshoot Day marks the date when humanity's demand on nature exceeds nature's annual budget, or more precisely, the amount Earth's ecosystems can regenerate.** In 2016, Earth Overshoot Day fell on August 8. For the first time, Global Footprint Network launched a series of pledges as part of its 2016 campaign to empower individuals to take action. Thanks to the help of 33 partners, Earth Overshoot Day also attracted the greatest media attention yet in 2016, with front page coverage in *USA Today* and the official Vatican newspaper, *L'Osservatore Romano*, among countless other articles.

www.overshootday.org



38,202

YouTube video views of Global Footprint Network's video



1,885

webpage mentions
in 84 countries leading
to over 1.8 billion
impressions



2,359

**Pledges Taken** 

# **2016 BY THE NUMBERS**

10,286
data downloads

83,794
publishable data points from National Footprint Accounts

35,093followers on social media

journal articles/white papers

# **OUR ACADEMIC REACH**

Our Ecological Footprint and biocapacity data were downloaded by 10,286 individuals from more than 120 countries. Students, teachers, and professors are the largest users of our data. These universities below are among the **2000+** educational institutions represented by data users around the world.



# **80 PARTNERS IN 26 COUNTRIES**

## **Government Agencies**

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

### **Consultancies**

Agenda 21 Consulting Altus Impact Best Foot Forward Centro Nacional de Consultoría DANDELION Environmental Consulting and Service Ltd. ECOLOGIC S.A.S. -CO\_CERO **EcoRes** Ecossistemas Design Ecológico **EcoSTEPS** Estudio MC Footprint Consult E.U. Info Grafik Inc. Iniciativa Verde IDEA Consultants Inc. Libélula Natural Logic, Inc. Punto 3 Srl **RECYCLA Chile** Sustentator Sustento The Footprint Company

#### **Educational Institutions**

Agrocampus Ouest

Cardiff University -The Centre for Business Relationships, Accountability. Sustainability and Society (BRASS) British Columbia Institute of Technology – School of Construction and Environment Charles University **Environment Center** Corvinus University of Budapest Ecole Nationale Supérieur des Mines de Saint-Étienne Gujarat Institute for Development Research Instituto Nacional de Tecnologia Industrial Maastritch University National State Tax University of Ukraine 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**

ALISOS-Alianzas para la Sostenibilidad Australian Earth Laws Alliance BioRegional Development Group Clean Up & Recycle for Environment 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 Fundación Amigos de la Naturaleza Fundación Neotrópica Globexs Innovation for Sustainable **Development Association** 

Instituto latobás Instituto Ricerche Economiche e Sociali del Piemonte Korea Institute Center for Sustainable Development KÖVET Association for Sustainable Economies Millennium Institute My Drop in the Oceans **New Economics** Foundation (nef) One Earth Initiative Plattform Footprint **Population Matters** Pronatura Mexico Sentido Verde Sustainable Europe Research Institute (SERI) The Natural Step International The Sustainable Scale Proiect 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, 2016 - DECEMBER 31, 2016

#### **Foundations**

Eidgenössische Bundesverwaltung

**Dudley Foundation** 

Foundation for a Sustainable Future

Foundation for Human Conservation

Lawrence Foundation

MAVA - Fondation pour la Protection de la Nature

Mental Insight Foundation

Pittsburgh Foundation

Stiftung Drittes Millennium

Stiftung Mercator Schweiz

Tellus Mater Foundation

**Trio Foundation** 

#### **Government Agencies**

Swiss Agency for Development and Cooperation

## **Educational Institutions**

Department of Economics, Swedish University of Agricultural Sciences

Fichte-Gymnasium Hage

Green College

Jamia Millia Islamia

University of British Columbia

University of South Florida

University of Florida

University of Notre Dame

University of Sydney

University of Valencia

## **Corporations**

Amazon

Bank of America

**Confitex Limited** 

**INFRAS** 

Kering

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Schwank Earthpartner

Sustainable Life Media

#### **NGOs**

Moroccan Association of Ecotourism and Protection of Nature

**Population Matters** 

World Business Council for Sustainable Development

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Noelle West led Whittaker Frank Wilkinson Robert Williams Susan Williamson Don Wilson Alexander & Jerelyn Wilson Kiva Wilson Sharon Wilson **Gary Wolff** Xiulun Yang Dorji Yangka Churui Zhang Markus Zimmerman Mathias Zimmerman Bradley Zlotnick Iris Zschokke Hans-Rudolf Zulliger Thomas D. Zweifel

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# **WHO WE ARE**

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Sarosh Kumana, Investor, President, Pacific Capital Management

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**Eric Garcetti,** Mayor, Los Angeles

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Tom Lovejoy, H. John Heinz III Center

Manfred Max-Neef, Economist, recipient of

Right Livelihood Award

Rhodri Morgan, Former

First Minister for Wales **Daniel Pauly,** Leading

marine ecologist

Jorgen Randers, Professor of Climate Strategy, Norwegian School of Management

Peter Raven, Former President, Missouri Botanical Gardens, leading botanist

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

Karl-Henrik Robert,

Founder, The Natural Step **Emil Salim,** Former

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James Gustave Speth,
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Resources Institute,
leading environmental
advocate

Will Steffen, Former Director, Australian National University's Climate Change Institute

Per Espen Stocknes, Senior Lecturer and Researcher, BI Norwegian Business School

**David Suzuki,** Awardwinning scientist and broadcaster

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

Ernst Ulrich von Weizsäcker, Co-President, Club of Rome

**Dominique Voynet,** Former Environment Minister, France, and Former Mayor, Montreuil **E.O. Wilson,** Distinguished biologist, Harvard University

#### **Our Team**

Benjamin Bellman Pragyan Bharati, Ph.D. Michael Borucke Sandra Browne Helena Brykarz Susan Burns Kvlie Carera Amanda Diep Derek Eaton Mikel Fyans Phillip Fullon Alessandro Galli. Ph.D. Michel Gressot Nicole Grunewald. Ph.D. Martin Halle Laurel Hanscom Ingrid Heinrich Shiyu (Krina) Huang Ronna Kelly David Lin, Ph.D. Drew Lisac Laetitia Mailhes Ion Martindill Zahra Medouar Giacomo Pascolini Pati Poblete Loredana Serban Michelle Shaffer **Judith Sissener** Diane Stark Frank Thompson Mimi Torres Mathis Wackernagel, Ph.D. Michael Wang Sebastian Winkler Dengyao Xu

#### Interns

Weng Lam Ao Vivian Bi Arthur Cen Alex Church Carlos Inigo Yuqiao Liang Sara Melziade Trang Nguyen Jonah Poczobutt Paulina Saracco Zhiyu Tang Rong Xu Sol Ah Yoo

#### **Affiliates**

Jag Alexeyev Sofia Curado Tony Drummond Melissa Fondakowski Steven Goldfinger Mark Harvey Annabel Hertz Karin Hess Robert Klijn Serena Mancini

## **WHO WE ARE**

#### **CLIENTS**

# **Government and International Agencies**

Agence Française de Developpement Climate Change Commission of the Philippines County Council of Biscay Kalu Yala Ministry of Climate Protection, Environment, Agriculture, Conservation, and Consumer Protection of North Rhine-Westphalia Ministry of Sustainable Development and Tourism of Montenegro Munich, Referat für Gesundheit und Umwelt Office of the Presidential Adviser for Environmental Protection (Philippines)

Provincial Governor of

Research Institute for

Mindanao (Philippines)

Humanity in Nature (Japan)

**UAE Ministry of Environment and** 

#### **Educational Institutions**

Ewha Womans University
Princeton University
Research Centre for
Astronomy and Earth Sciences,
Hungarian Academy of Sciences
University of Brunei Darussalam
University of Liechtenstein
University of Waterloo

#### Consultancies

ABOCO - Aurélien BOutaud COnseil footprint-consult e.U. IDEA Consultants KPMG CARDENAS DOSAL, S.C. Medcom Information Services South Pole Group Vescore AG

#### **NGOs**

Emirates Wildlife Society - WWF New Economics Foundation WWF Hong Kong WWF Japan WWF Korea WWF International WWF Russia

### **Corporations**

Tetra Pak North America

#### Contributors

Claire Obenson

Anomi Studio Chiron Mukherjee Consulting Cosmetto Earth Economics **Ecocity Builders** Elsevier Scott Fitzloff Erica Frye IEA.org Impactvesting LLC Anka Ivanovic Nebojsa Jablan Silke Knebel Christopher Knowland Maddox Design Made To Order Mary Jane Ryan Consulting LLC Minuteman Press Peter Nguven

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Pentagram
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Rosier & Co
Captus Sarl
Schaffer & Combs
Storyware
Teract Technologies
Tink Tank Studio
Tobi Designs
Tune Into Earth
University of Siena
VRE sprl
Patricia Wintroath, CPA

#### **Donated Goods and Services**

Cooley LLP
Nicolas Galler
Google Inc.
Nagham Helmy
Alex Shapiro
Sustainable Growth Associates
Ticket to the Moon

Water

# **FINANCIALS**

**INCOME** | JANUARY 1, 2016 – DECEMBER 31, 2016

All values shown in U.S. dollars



## Income

**Total Income:** 

0	Foundations	1,608,283
0	Individual Contributions	1,182,840
0	Fee for Service	349,219
0	In-Kind Contributions	213,081
0	License Fees	51,726
0	Speaking Honoraria	12,053
0	Interest, Dividends, Unrealized Loss	8,181
0	Royalties	3,440

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

3,428,823

# **FINANCIALS**

**EXPENSES** | JANUARY 1, 2016 – DECEMBER 31, 2016

Expenses

All values shown in U.S. dollars

## **Expenses**

Payroll and Personnel Expenses	1,684,416
Operations	450,051
Professional Fees	448,302
Program Expenses	269,410
<b>Computer-Related Expenses</b>	106,039
Travel	81,035
	Operations Professional Fees Program Expenses Computer-Related Expenses

Total Expenses: 3,039,253



## U.S. OFFICE

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#### **EUROPE OFFICE**

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www.footprintnetwork.org