

Analysis, anticipation and dialogue
INSTITUT VEOLIA ENVIRONNEMENT



ACTIVITY REPORT 2012 / 2013

INSTITUT

Veolia Environnement



Institut Veolia Environnement • Activity report 2012 / 2013

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EDITORIAL

JEAN PIERRE TARDIEU,
PRESIDENT



There is now a broad consensus in public opinion on the need to protect the environment, but the question of how that protection is to be financed remains open. It is an issue that sparks fierce debate, polarizes political views and divides opinion.

From one forum to the next, all the way through to the Rio+20 United Nations Conference on Sustainable Development and no doubt beyond, the leitmotif has been and will continue to be finding innovative ways of financing the attainment of environmental objectives, chief among them the key issues of combating climate change, protecting water resources and preserving biodiversity.

Environmental common goods, such as clean water, land free of pollution and waste, oceans teeming with fish, climate balance, biotic richness and many more, fit in that category of goods that falls outside the scope of commonplace economic relationships and belongs to what economists call externalities. It follows that there is a tendency to waste such goods, and there is often no spontaneous market to assign a price to them or allocate resources capable of adequately managing and protecting them. The only solution is to employ appropriate institutional mechanisms to achieve these ends.

The first question to be answered is who is the “customer” for sustainable development: who is likely to pay for, and invest in, the common environment? This “virtual” customer - sometimes the consumer, user or citizen, sometimes the political decision-maker - needs to be able to see clearly in order to take decisions. Part of the work of the Institut Veolia Environnement concentrates on this aspect: anticipating environmental changes and their impacts on society, based on objective scientific studies, and disseminating the conclusions of those analyses as widely as possible.



GEORGES VALENTIS,
MANAGING DIRECTOR

On the supply front, solutions are being developed on all sides. Sophisticated technical and technological innovations, inspired by local knowledge and tailored to specific contexts and resources, are being implemented all over the world. Identifying and disseminating these innovations and good practices is the second major component of the Institute's work.

Under the intellectual oversight and with the assistance of its Foresight Committee, the Institute deploys the tools at its disposal to promote firstly an objective understanding, based on scientific analysis, of potential future developments and, secondly, the most promising solutions. Recent examples include the organisation of the conference on poverty and the environment at Rio+20 in June 2012, immediately followed by the preparations for a conference on the restoration of major ecosystems to be held in May 2014, publication of a special issue of the scientific journal SAPIENS in conjunction with the IUCN in November 2012, special issues of FACTS Reports on innovative field actions, such as the report on Livelihoods in June 2013. This system of monitoring and foresight reflection is supplemented by partnerships on pertinent studies such as Europe's FP7 RAMSES project on cities' resilience to climate change.

Veolia Environnement supports and nurtures the activities of the Institute it created. The principle on which the Institute is founded, that of making the results of its work public and readily accessible, is just one manifestation of the company's commitment to the general interest. In return, Veolia profits from the Institute's work to inform its strategic choices, anticipate future societal and environmental demand, identify new opportunities and trace the future development of its sector.

Highlights of 2012

JANUARY

- > Address on the theme “Is ecology at risk from science without conscience?” presented on 19 January to the Ethics and Environment Conference organised by the École Supérieure d’Ethique des Sciences of the Institut Catholique in Toulouse.

MARCH

- > Submission to the UN of a proposed seminar for Rio+20 on innovations by field practitioners.
- > Seminar to promote the FACTS Reports special issue on poverty, partnered by Le Monde newspaper, at the Cité de l’Architecture in Paris on 6 March, attended by three of the 17 contributing authors: Luc Rigouzzo (President, Amethis Finance), Laurence Fontaine (Historian, EHESS) and Jean Claude Berthélemy (Economist, University of Paris 1).

APRIL

- > Meeting of the Foresight Committee in Washington DC, including contributions from Manish Bapna, Acting President of the World Resources Institute, and from Laurent Auguste, President and CEO of Veolia Water North America.

MAY

- > The Institute receives official accreditation from the UN Assembly General for Rio+20 and becomes a member of the Civil Society Network of the United Nations Department of Economic and Social Affairs (UN DESA).
- > The Institute receives European Commission accreditation as a research organisation under the 7th EU Framework Programme for Research (FP7).
- > Presentation of the Institut Veolia Environnement and FACTS Reports to students at HEC business school on 14 May, and discussion of plans to incorporate a FACTS module into the HEC curriculum.

JUNE

- > Meeting of the Board of Directors of the Institut Veolia Environnement.
- > Institute initiatives at Rio+20: a one-day international conference organised with the Botanical Garden of Rio de Janeiro on 19 June, on the theme of “Poverty Eradication and the Environment”, sponsored by the Brazilian Ministry of the Environment and supported by the Agence Française de Développement, featuring 18 prominent speakers and 400 participants; a side event held on 18 June at the Rio Centro convention centre on actions in the field; participation in a UNEP-ICLEI session presenting the results of the study on measuring urban environmental performance.

JULY

- > Issue and circulation of joint IVE/ AFD publications following up the June 2011 Paris conference on “Reconciling poverty eradication and quality of the environment”: an issue in the AFD *Savoirs Communs* series entitled “*Pauvreté-En-*



Conference on Poverty and the environment: F. Gaetani, Brazilian Deputy Minister of the Environment, R. Pachauri, Chairman of the IPCC, G. Gelli, Director at the Research Institute of JBRJ



Conference on Poverty and the environment: Session on urban development with Carlos Correa, Mayor of Monteria, Colombia, Aisa Kacyira, Deputy Executive Director, UN-Habitat, Remy Genevey, Director of Strategy of AFD, and moderated by Gaell Mainguy, Veolia Institute.

vironnement: conjuguer les trajectoires" (Poverty and environment: reconciling trajectories) and a FACTS Reports special issue covering some of the field initiatives presented at the conference.

- > Publication of the English version of the FACTS Reports special issue on "Fighting poverty, between market and gift" with a preface by Amartya Sen, Economist, 1998 Nobel laureate and member of the Institut Veolia Environnement's Foresight Committee.

SEPTEMBER

- > Issue and circulation of a special issue of S.A.P.I.EN.S on Biodiversity, dedicated to the six IUCN Commissions, at the 2012 World Conservation Congress held in Jeju, South Korea.
- > Presentation to the 6th session of the UN Habitat World Urban Forum held in Naples from 1-7 September for the launch of the UNEP Global Initiative for Resource Efficient Cities, accompanied by the other partners: World Bank, ICLEI, UN Habitat, UCLG, OECD.

- > Presentation of FACTS Reports to the CIVICUS World Assembly in Montreal from 3-7 September.

- > Contribution to the World Forum Convergences on the Millennium Development Goals held in Paris from 19-21 September and involvement in the Convergences 2015 Awards.

OCTOBER

- > Presentation of the study on measuring urban environmental performance at the 6th Urban Research and Knowledge Symposium organised in Barcelona by the World Bank and the City of Barcelona.

- > Promotion of the partnership between the Livelihoods Fund and FACTS Reports: participation in the Livelihoods Network Camp from 8-10 October in the Araku Valley in India and presentation of the joint special issue at a press conference as part of COP 11 to the Convention on Biological Diversity in Hyderabad.

- > Address at the 3rd Entretiens du Grand Paris conference on the theme of "Global city, neighbourhood life" held at the Cité du Cinéma in Saint-Denis.

NOVEMBER

- > Meeting of the Foresight Committee in London on 23 and 24 November, with guest speakers Nigel Brandon, Director of the Energy Futures Lab at Imperial College and Camilla Toulmin, Director of the International Institute for Environment and Development, in presence of Helman le Pas de Sécheval, Veolia Executive Vice-President and General Counsel.

- > Launch meeting for European RAMSES project on adapting cities to climate change, held in Potsdam from 14 to 16 November, and attended by representatives of the 12 European academic and institutional partners.



Members of the Foresight Committee with collaborators of Veolia Institute at the meeting in Washington DC, April 2012

About the Institut Veolia Environnement

INSTITUT

Veolia Environnement



Date of creation _2001

Legal status _

Non-profit organisation under the French Law of 1901

Funding _

Veolia Environnement,
Veolia Eau,
Veolia Energie/Dalkia,
Veolia Propreté

Location _Paris

Scope of activities _

International

Team _5 people

Established in 2001 to promote foresight analysis on issues at the interface between society and the environment, the Institut Veolia Environnement has made its reputation as a platform unlike any other. Its greatest strength lies in a unique combination of scientific method and analysis of field practices.

The decision to set up the Institut Veolia Environnement in 2001 was inspired by the idea that an independent think-tank structure analysing future trends could serve the Veolia Group well, feeding into its vision of the long-term future and beyond and contributing, thanks to its unique method, to public debate and general interest. The Institute's mission: to analyse long-term future trends at the intersection between the environment and society. Its objective: to discern changes on the horizon, identify the leading experts in their various fields of intellectual exploration and promote an understanding of complex issues through dialogue between all those engaged in sustainable development.

COMPOSITION

Foresight Committee



Esther Duflot

Professor of Poverty Alleviation and Development Economics, MIT and Founder and Director, Abdul Latif Jameel Poverty Action Lab (J-PAL).
USA



Harvey Fineberg

President of the United States Institute of Medicine, Advisor to the World Health Organisation, Former Dean of the Harvard School of Public Health.
USA



Pierre Marc Johnson

Lawyer and Physician, Former Prime Minister of Quebec, Quebec's Chief Negotiator in Canada-European trade talks.
Canada

BALANCED GOVERNANCE

The Institut Veolia Environnement is organised around two governing bodies that ensure a qualified external view guiding its work whilst keeping it firmly anchored in the everyday reality of an economic player such as Veolia.

- **The Foresight Committee** has provided the Institute with constant support and guidance in its development since 2001, underwriting its scientific credentials thanks to the international standing of its members and the specific knowledge each contributes in his or her particular area of expertise: the humanities, economics, public health, climate science.

The twice-yearly meetings of the Foresight Committee serve not only to approve Institute projects currently in hand, but also to enrich its work with new insights and extend its network by calling on the most eminent experts in their field.

In 2012, Manish Bapna, Acting President of the World Resources Institute (WRI), and Laurent Auguste, President and CEO of Veolia Water North America, addressed the Committee's March meeting in Washington; the November meeting in London heard from Camilla Toulmin, Director of the International Institute for Environment and Development (IIED), and Nigel Brandon, Director of the Energy Futures Lab of Imperial College London and Senior Research Fellow to the UK Research Council's Energy programme.

After more than 11 years of committed membership, H  l  ne Ahrweiler has become, in mid-2012, an Honorary Member of the Foresight Committee.

The Veolia Institute has invited a new member at the end of 2012. Prof. Esther Duflo, well-known Economist at Massachusetts Institute of Technology (USA) and Founder and co-director of the Abdul Latif Jameel Poverty Action Lab (JPAL), has accepted to join the Foresight Committee. Her active participation will enrich the diversity and dynamic of the Committee, a central pillar for the Institute.

- The Board of Directors, with its diversified membership – representatives of Veolia, members of the Foresight Committee, eminent external experts – reflects the original positioning of the Institute and the bridges it builds between the private sector, representatives of civil society and the scientific world.

The operational team steers and deploys environmental foresight activities, identifying priorities for action, disseminating the results of work undertaken with partners and coordinating the expert networks involved.

AREAS OF WORK

Designed as a tool for collective reflection and debate, the Institute sets out to detect emerging fields and future areas of interest, particularly in its three main fields of study:

- **Comprehensive management of the environment and ecosystems:** developing a more integrated approach to the analysis of major natural phenomena such as climate change, depletion of resources like water or arable land, and loss of biodiversity.



Philippe Kourilsky
Biologist,
Professor at the
Collège de France,
Honorary Director-General
of the Institut Pasteur,
Member of the French
Academy of Sciences.
France



Rajendra K. Pachauri
Director-General of
the Energy and
Resources Institute,
Chairman of the
Intergovernmental
Panel on Climate Change
(Nobel Peace Prize 2007).
India



Mamphela Ramphela
Physician and
anthropologist,
Former Managing
Director of the World
Bank,
Former Vice-Chancellor
of Cape Town University.
South Africa



Amartya Sen
Economist, Nobel laureate in 1998, Lamont University Professor and Professor of Economics and Philosophy at Harvard University, USA
Former Master of Trinity College, Cambridge, UK.
India

- The expectations of society and the general public as end-users and contributors to sustainable development:

examining the roles and responsibilities of the various public and private sector stakeholders and of civil society, and how they should be allocated in the light of social, economic, political and cultural circumstances.
- Measuring performance on sustainable development, with a special focus on cities:

choosing the right indicators to take account of the externalities, the complexity of the issues and the interdependence of constraints at territorial level, ways of measuring progress achieved and establishing meaningful comparisons with other measurements.



A UNIQUE PLATFORM

The Institut Veolia Environnement carries out its missions through three instruments designed both to identify points of analysis and understanding relating to emerging issues and to fuel public debate via a multidisciplinary approach:

- A programme of Future Environmental Trends conferences in the form of multidisciplinary forums for dialogue, providing insight into key environmental issues. In 2012, the focus was on the “Poverty and Environment” theme at the UN Rio+20 Conference on Sustainable Development.
- Two scientific journals to meet an ever growing need for access to peer-reviewed, integrated and transdisciplinary knowledge. S.A.P.I.EN.S publishes a digest of the most striking thinking on sustainable development, while FACTS Reports capitalise on fieldwork conducted for the most part by NGOs. 2012 saw the development of special issues based on editorial partnerships addressing a specific topic or region.
- A research programme: studies leading to in-depth foresight analyses of topical issues. 2012 was a year of capitalising on analyses and reinforcing networks on the theme of sustainable cities.

These activities, systematically conducted in partnership with external academic experts and development practitioners, are intended to be available to all, through discussion forums, open-access publications, etc. This approach is designed to promote sharing of peer-reviewed scientific knowledge and field practices between all those involved in reflecting upon sustainable development.

Year after year, the Institut Veolia Environnement has pursued its work and at the same time strengthened the synergies between its key instruments. Thanks to this constant and consistent process of consolidation, the Institute has become increasingly effective and has also gained in credibility on the international stage.

In 2012, the Institute was awarded two accreditations:

- one from the United Nations as a member of the Civil Society Network of the United Nations Department of Economic and Social Affairs (UN DESA),
- and the other from the European Commission, as a research organisation under the 7th Framework Programme for Research (FP7). Such recognition paves the way for wider acknowledgement by European and UN institutions of the Institute’s status as a legitimate knowledge-sharing and networking platform.

In maintaining its ongoing dialogue with academic circles and NGOs acknowledged as leaders in their field, the Institut Veolia Environnement operates at the interface between society and the environment. On the strength of this original positioning, it seeks to provide the insights needed to comprehend the world of the future and identify the levers that can bring about the necessary changes.

Multidisciplinary discussion platforms: the international conferences



Flagship project_

IVE conference at Rio+20
on 19 June

Theme_

Poverty and the Environment

Support_

Official supports:
Brazilian Ministry of the
Environment and Agence
Française de Développement

Partners_

Main: Botanical Garden of Rio
de Janeiro
Associated: CIVICUS

Highlights_

- _A relevant translation of the
conference theme around 4
priorities
- _18 eminent speakers
- _400 participants

The conference programme acts as a moderator between interdisciplinary communities and a catalyst for new ideas, bringing the latest knowledge and innovative practices to bear in order to shed light on environmental issues.

BACKGROUND TO RIO+20

Rio+20, the United Nations Conference on Sustainable Development (UNCSD), was the landmark event of 2012 for all those involved in considering the transitions towards a shared sustainable future (read Brice Lalonde’s account on the next page).

The UN Conference focused on two themes:

- A green economy in the context of sustainable development and poverty eradication
- The institutional framework for sustainable development

It provided a further opportunity for the Institut Veolia Environnement to take forward its work on the interactions between Poverty and the Environment. In the wake of its contribution to the preparation of the Draft Zero Document by the UNCSD at the end of 2011, the Institute followed up with further contributions to the preparation process: submission of a proposal for an official side event on innovative field actions, an application for official accreditation, and preparation of an international conference with Brazilian partners.

BRICE LALONDE, EXECUTIVE COORDINATOR OF THE UNITED NATIONS CONFERENCE ON SUSTAINABLE DEVELOPMENT RIO+20

Rio+20 aimed to define a “sustainable common future” against a background of major crises with immediate effects. How can foresight reflection shed light on the transitions necessary for the future of humankind?

Rio+20 was the fourth conference, after those of Stockholm in 1972, Rio in 1992 and Johannesburg in 2002, at which the international community sought to review the situation of humankind across the globe, its prospects for the future and the priorities to be tackled collectively. This family of conferences focuses its attention above and beyond the turmoil of day-to-day affairs to consider long-term trends and develop insights to guide the actions of societies and governments. Historical analysis and foresight reflection are both essential to this process. Foresight reflection is often expressed in the form of scenarios presented to stakeholders, and it seeks to re-establish connections, breaking down the silos that the separation of scientific disciplines and government departments has a tendency to create. Yet the outcome document of the

conferences is the product of negotiation between the States. As such, it is subject to geopolitical constraints although these are, fortunately, mitigated by pressure from the non-governmental participants who, by their numbers and their input, contribute so much to the success of the event: businesses, cities and regions, organisations, scientists. Rio+20 confirmed that sustainable development remains an ideal to which the 193 UN Member States adhere, and invited the UN Assembly General and its Secretariat to take steps to assist States to engage in the necessary transitions. The issue now is to put the decisions of Rio+20 into effect.

In concrete terms, how can the Sustainable Development Goals contribute?

This is clearly the most significant decision reached at the Conference: by the deadline of 2015, to distil the priorities for humankind into some ten goals that the international community would commit to achieving by 2030 or thereabouts. The idea of setting goals stems from the success of the campaign to eradicate



poverty set out in the eight Millennium Development Goals adopted by the UN in 2000 and scheduled for review in 2015. While not all the goals may be achieved, at least they will have served to focus efforts and measure outcomes. This time it is not simply a matter of eradicating poverty, but also of ensuring the welfare of a global population of eight billion without endangering that of the next generation, particularly through better management of the earth's resources. In 2015, member States will be called upon to decide whether the two projects are complementary or should be merged.

With the benefit of a few months' hindsight, what would you say was the most promising message brought to Rio+20?

Stop whimpering and act!

The Institut Veolia Environnement was keen to propose a forum to build on the international momentum created by its conference on the same theme held in Paris in June 2011. Its proposal involved a conference entitled “Poverty Eradication and the Environment” organised in partnership with the Botanical Garden of Rio de Janeiro on 19 June, and patronized by the President of the Research Institute of the Botanical Garden, Mr Liszt Vieira. The event benefited from the support of the Brazilian Ministry of the Environment, the Agence Française de Développement (AFD) and the collaboration of CIVICUS, the World Alliance for Citizen Participation.

The idea was to adapt the programme of the 2011 Paris conference to the themes of Rio+20 and to issues of concern to Brazil, a country enjoying rapid development but also experiencing widening inequality, home to a global

symbol of biodiversity under threat, and with a strong civil society keenly alive to issues of social justice, good governance and sustainable development.

The programme was organised around four sessions:

Session 1: Poverty and biodiversity

Session 2: Poverty and the environment in urban areas

Session 3: The role of local practitioners such as NGOs and dissemination of their innovations in the field

Session 4: Transforming modes of governance

The initiative paid off. The conference was included in the overall programme of a week rich in events and gatherings for Rio+20 and attracted over 400 participants to listen to an international panel of eminent speakers (see page 12).

SPEAKERS AT THE JOINT CONFERENCE OF THE VEOLIA INSTITUTE AND THE BOTANICAL GARDEN OF RIO DE JANEIRO ON JUNE 19

Andre Albuquerque,
Founder and Director General,
Terra Nova

José Cardoso Da Silva,
Vice-President, Field Programmes,
Conservation International

Carlos Correa,
Mayor of Monteria, Colombia

Monica de Roure,
Director, Ashoka Brazil

Rémy Genevey,
Director of Strategy, Agence
Française de Développement

Aisa Kacyira,
Deputy Executive Director, UN
Habitat and former Mayor of Kigali

Justin Kilcullen,
President, Trocaire

Julia Marton-Lefèvre,
Director General, International Union
for Conservation of Nature

Rajendra K. Pachauri,
Chairman, IPCC, Director General,
The Energy and Resources Institute

Luiz Pinguelli Rosa,
Director, COPPE, UFRJ

Jean Rossiaud,
Member of the Swiss Green Party

Henri Rouillé d'Orfeuil,
Former President, Coordination Sud

Alfredo Sirkis,
Federal MP, Brazil

Pavan Sukhdev,
Founder, GIST Advisory

Izabella Teixeira,
Brazilian Minister of the Environment
represented by Francisco Gaetani,
Deputy Minister

Laurence Tubiana,
Director General, International
Institute for Sustainable
Development and International
Relations

Henri Valot,
Outreach Director, Civicus

Jean Marc von der Weid,
Founder, ASPTA



Opening session of the Conference on Poverty and the Environment at the Botanical Garden of Rio de Janeiro, June 2012.

As with its programme of international conferences, the Institute's aim is to provide multifaceted insights to promote a better understanding of the issues and the emergence of potential solutions. The events it organises also provide a platform for those with solutions to offer and an illustration of academic concepts implemented in concrete actions and good practices.

Other initiatives during the Rio+20 conference included the organisation of a side event at the RioCentro convention centre with partners such as CIVICUS and Concord to promote the FACTS approach to a wider audience (see page 18) and participation in a UNEP-ICLEI session at the ICLEI Global Town Hall (see page 21).

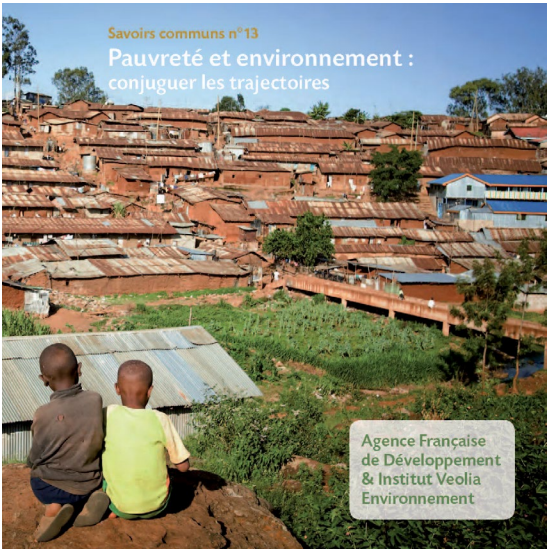
THE OUTCOME FOR IVE

The outcome was extremely positive for the Institut Veolia Environnement:

- raising the profile of the overall issue of Poverty and Environment by linking it to a landmark United Nations event;
- presenting new opportunities for partnerships with Brazilian and international organisations: extended cooperation with AFD, IUCN and UN Habitat and the development of new partnerships with organisations such as CIVICUS;
- recognition by UN bodies thanks to the Institute's official accreditation.

Other initiatives building on the Paris Conference and its outcomes

Keen as ever to capitalise on past efforts, the Institut Veolia Environnement and AFD cooperated on joint publication in mid-2012 of two post-conference documents: a FACTS Reports special issue devoted to a number of field experiments presented at the event, and an issue of AFD's *Savoirs Communs* series on the theme of "Pauvreté-Environnement: conjuguer les trajectoires" (Poverty and environment: reconciling trajectories).



WORK ON THE “POVERTY AND ENVIRONMENT” THEME SINCE 2006

For the past six years and more, analysing the interactions between poverty and the environment has been one of the Institut Veolia Environnement’s main priorities. The Institute has used the tools at its disposal to gather and share knowledge and experience in order to arrive at a deeper understanding of this core issue.

- Address by Amartya Sen on the subject of “Environment and Poverty: One World or Two” to the Institute’s 3rd Future Environmental Trends Conference on “Energy, Environment and Development”, held in Bangalore, India, in 2006.
- Study by Esther Duflo, economist at MIT and Director of J-PAL, on the effects of indoor air pollution and the introduction of cleaner stoves on the health of poor families in India, 2007.
- Post-conference workshops on the “Poverty and Environment” theme in Beijing, 2010, in the wake of the Institute’s 5th Conference in conjunction with Center for Human and Economic Development Studies (CHEDS), Peking University and the International Poverty Reduction Center in China.
- 6th Future Environmental Trends Conference on the same theme in 2011 in Paris, in partnership with AFD.
- Continuation at Rio+20 in 2012.

All the above documents and digests are available on the Institute website
www.institut.veolia.org/en

7TH CONFERENCE

At the same time, the Institute is also engaged in preparing its 7th Future Environmental Trends Conference to take place in May 2014. During the last quarter of 2012, the Institute began approaching a preliminary circle of co-organising partners. The aim of the con-

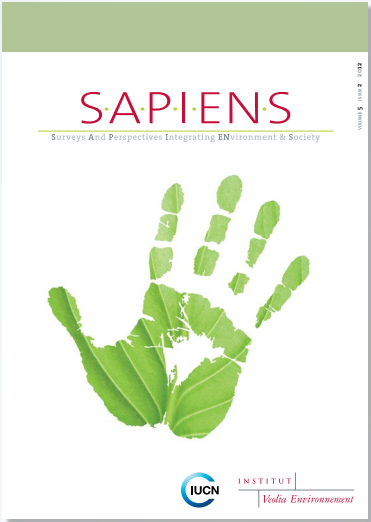
ferences, held every 18-24 months, is to contribute to public debate, act as a catalyst for new ideas, call upon the most advanced expertise and facilitate dialogue between all those involved. The theme of the 2014 conference will be large-scale ecosystem restoration.

STRATEGIC DIRECTIONS IN 2013

- > **Prepare** the 7th Future Environmental Trends Conference on “Large-scale Ecosystem Restoration” to be held in May 2014 and finalize the partnerships with: Agence Française de Développement, International Union for Conservation of Nature, Water Sciences and Technology Board of the US Research Council.
- > **Preparatory session** for the conference at the Foresight Committee meeting at IUCN headquarters in Switzerland in April 2013.
- > **Continuing the partnerships** established at Rio+20 with Brazilian and civil society organisations.

Innovative editorial policy: S.A.P.I.EN.S and FACTS Reports

S.A.P.I.EN.S



Date of creation_ 2007

Targets_ a pluridisciplinary scientific approach to sustainable development

Publication features_ peer-reviewed, online, open access

2012 Special issue_ Biodiversity, IUCN Commissions

Statistics in 2012_ over 80,000 unique visitors and 400,000 page views

Follow S.A.P.I.EN.S online_ www.sapiens-journal.org
Twitter_ @SAPIENS4Future

S.A.P.I.EN.S

The complexity and interdependence of environmental, social and economic issues call for greater dialogue between disciplines. Scientific journal S.A.P.I.EN.S was launched in 2007 in the belief that a global, integrated approach to scientific knowledge is essential in tackling the issues of sustainable development.

Promoting access to knowledge

Convinced of the need for better circulation and dissemination of knowledge and ideas, the Institut Veolia Environnement launched S.A.P.I.EN.S with the aim of providing open access to the entire body of knowledge available in its spheres of interest. The massive growth in all forms of open access (open data, open university, etc.), and the vastly increased opportunities for dissemination and interaction that it provides, demonstrates clearly that managing knowledge as a public good is vital for cooperation in building the solutions of tomorrow.

Editorial partnerships

S.A.P.I.EN.S continues to publish articles on topics as they arise, but is concentrating particularly on developing strong, high-profile editorial partnerships and publishing joint special issues. With its unique modus operandi, S.A.P.I.EN.S offers its partners a structured knowledge capitalisation tool and a valuable platform for sharing and making use of knowledge.

The highlight of 2012 was the publication of a special issue on Biodiversity in conjunction with the International Union for Conservation of Nature (IUCN). Recognising that knowledge is a primary change driver, the IUCN was keen to showcase the diversity of the intellectual output of its six Commissions made up of over 11,000 volunteer researchers.

The special issue reported on the most significant advances made by each of the Commissions, and their priorities for action in the fields of managing ecosystems and protected areas, environmental policies, species conservation, environmental law, communication

and education. These original contributions, published for the first time in a peer-reviewed journal, provided IUCN with a platform on which to display its broad scope of activities, ranging from grassroots level (research projects, experiments) to international policy negotiation fora.

Given the scale of the threats to biodiversity and ecosystems, global efforts must be stepped up. Now more than ever, there is a pressing need for all the knowledge produced to date to be made more widely available, beyond the confines of the specialist conservation communities.

Launch of special issues

The special issue on Biodiversity was distributed on USB flash drive to participants attending the World Conservation Congress organised by the IUCN in Jeju, South Korea, in September 2012. The event provided the perfect opportunity for S.A.P.I.EN.S to make contact with new scientific communities and extend its international reach.



During the Congress, the Institute also took part in a workshop on 8 December entitled “The Connectors”, alongside representatives of the Club of Rome and other scientific networks and think-tanks such as the Balaton Group, the International Systems Dynamics Society and EarthSafe Enterprises. The workshop looked at the role of modelling instruments and transdisciplinary knowledge-sharing tools such as S.A.P.I.EN.S to foster understanding of the complex issues of the multifaceted issues of environment and society.

ARTICLES OF S.A.P.I.EN.S AND IUCN SPECIAL ISSUE

Foreword to the Special Issue of S.A.P.I.EN.S Journal on IUCN Commissions from Julia Marton-Lefèvre, Director General of IUCN, and Georges Valentis, Managing Director of Veolia Environment Institute

Knowledge for Our Planet

Commission Education and Communication

- > Presentation: IUCN Commission on Education and Communication
- > Creating Pathways for Positive Change, Wendy Goldstein, et al.

Commission on Environmental, Economic and Social Policy (CEESP)

- > Presentation: IUCN Commission on Environmental, Economic and Social Policy (CEESP)
- > Biocultural Design: A New Conceptual Framework for Sustainable Development in Rural Indigenous and Local Communities, Iain J. Davidson-Hunt, et al.

Commission on Environmental Law

- > Presentation: IUCN Commission on Environmental Law
- > Non-regression in environmental law, Michel Prieur

Commission on Ecosystem Management

- > Presentation: IUCN Commission on Ecosystem Management
- > IUCN Red List of Ecosystems, Jon Paul Rodríguez, et al.

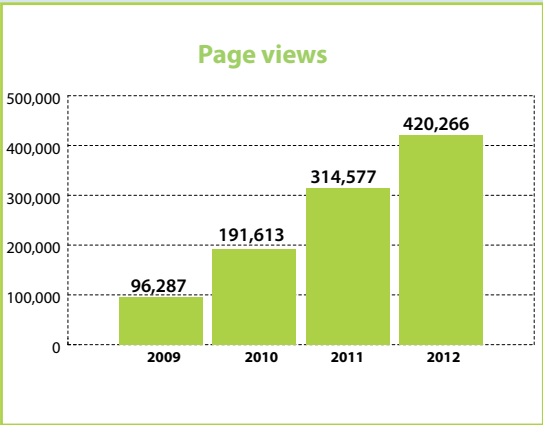
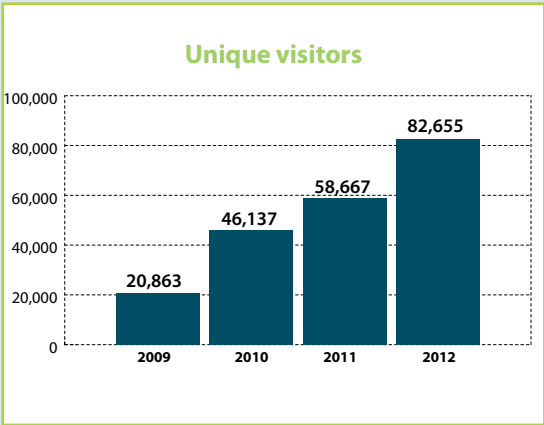
Commission on Species Survival (SSC)

- > Presentation: IUCN Species Survival Commission (SSC)
- > Why South-east Asia should be the world's priority for averting imminent species extinctions, and a call to join a developing cross-institutional programme to tackle this urgent issue, J. W. Duckworth, et al.
- > The Amphibian Extinction Crisis - what will it take to put the action into the Amphibian Conservation Action Plan?, P. J. Bishop, et al.

World Commission on Protected Areas

- Presentation: IUCN World Commission on Protected Areas
- Protected areas: providing natural solutions to 21st Century challenges, N. Lopoukhine, et al.

S.A.P.I.EN.S website traffic statistics



Visibility

These initiatives all play their part in establishing the reputation of S.A.P.I.EN.S as a journal of reference in the sustainable development field. This is more than borne out by the website traffic statistics:

- In 2012 S.A.P.I.EN.S logged 82,000 unique visitors and 420,000 page views (an increase of 40% over 2011).
- The readership is increasingly international. The main points of origin are the USA, Germany, the United Kingdom, France, China, India and Australia.

The language of publication and the origin of authors play a part in extending the journal’s international reach, and the Institute’s involvement in international events also has a direct impact: Brazil jumped into

the top three points of origin for website hits in June and July, a direct result of the promotion of S.A.P.I.EN.S during the Institute’s local initiatives at Rio+20 and the distribution of flyers.

- S.A.P.I.EN.S now has its own Twitter account, yet another tool for publicising articles and stimulating interaction on sustainability research.

The Institut Veolia Environnement will continue to develop this purpose-designed tool for gathering and comparing scientific ideas and expertise. Now more than ever, its pluridisciplinary approach is needed in order to identify new methods to understanding complex, multi-stakeholder challenges and to anticipate major transformations and break points.

STRATEGIC DIRECTIONS IN 2013

- > **Strengthen partnerships with international scientific events on sustainable development** that promote a pluridisciplinary approach, in order to tap into integrated knowledge and extend the reach and impact of S.A.P.I.EN.S.
- > **Prepare a special issue on Resilient Cities** as a contribution to the RAMSES European research project and on **Ecosystem Restoration** as a contribution to preparations for the 7th Future Environmental Trends Conference to be held in 2014.

FACTS REPORTS



Date of creation_ 2008

Targets_ development field practitioners (NGOs, international organisations, etc.)

Publication features_ peer-reviewed, online, open access

2012 Special issues_
Fighting Poverty (2), Access to Healthcare, Women's and Children's Health, Livelihoods

Statistics in 2012_
over 76,000 visitors
and 340,000 page views

Follow FACTS Reports online_
www.factsreports.org
Twitter account_ @FACTSreports

FACTS REPORTS

The many initiatives and innovations taking place in the field deserve to be shared more widely and practitioners, actively engaged in development with NGOs, development agencies and international organisations, are eager for tools to help them to do so. This was what inspired the Institut Veolia Environnement to launch its FACTS Reports journal in 2008, to provide a platform for sharing tried and tested knowledge and know-how, subject to the same process of peer review as practised in the field of science.

Proof of concept now firmly established, the Institute is currently concentrating its efforts on developing the journal and extending its circulation and impact by reaching out to field practitioners themselves and also to all those with an interest in their work (donors, media, etc.).

Special issues

These efforts have focused in 2012 on the deployment, in addition to spontaneous articles, of special issues addressing a specific topic or region that bring together a community around a given theme thanks to partnerships that provide both content and visibility.

The following special issues were published in 2012:

- "Fighting poverty, between market and gift". Objective: understanding how the logic of "aid" and that of "trade", often presented as mutually antagonistic, actually interact and are mutually complementary.
- "Reconciling Poverty Eradication and Protection of the Environment". This issue follows on from the Institute's 6th Future Environmental Trends Conference, in conjunction with AFD, and helps capitalize on some of the field initiatives presented at the Paris conference. A perfect example of the synergies between the Institute's different activities, which feed into one another.

- "Access to Healthcare, Healthcare Funding and Performance" presents a number of experiments in various African countries designed to facilitate access to healthcare and devise more effective ways of funding healthcare services. These practical illustrations were drawn from papers presented at the 3rd International Conference of the Centre for Studies and Research on International Development (CERDI) of the University of Auvergne on "Health Financing in Emerging and Developing Countries" in 2011.
- "Livelihoods", in partnership with the Livelihoods Fund, an investment fund that finances agroforestry, rural energy and ecosystem restoration projects that combine reductions in greenhouse gas emissions with improvements to the living conditions of the local communities concerned. An opportunity for FACTS to add to its network of experts and contributors on agricultural, food and environmental issues.
- "Women's and Children's Health", a contribution to the Global Strategy launched by UN Secretary General Ban Ki Moon in 2010 in response to the urgent need for action to achieve Millennium Development Goals 4 and 5 on mother and child mortality by 2015.
- A media event was held on 6 March, in partnership with French newspaper Le Monde, to mark the publication of a FACTS special issue on "Fighting poverty, between market and gift". A roundtable was organised at the Cité de l'Architecture et du Patrimoine in Paris, attended by three of the authors involved. Excerpts from articles were also reprinted in Le Monde on 6 March.
- Institut Veolia Environnement events at Rio+20. A side event entitled "Innovative field actions as leverage for change", approved by the UN Secretariat and included in the RioCentro official programme, was organised on 18 June in conjunction with CIVICUS (World Alliance for Citizen Participation) and CONCORD (European NGO Confederation for Relief and Development). Promoting the side event also provided an opportunity to publicise the FACTS approach more widely to hundreds of NGOs making up the NGO Major Group mobilised for Rio+20. On 19 June, the conference on "Poverty Eradication and the Environment" held at the Botanical Garden of Rio de Janeiro (see page 11) provided a further platform for wider dissemination of the field innovations identified via the FACTS Reports journal, in particular in the FACTS Reports special issue on Brazil.
- Participation in the Livelihoods Network Camp held from 8 - 10 October in the Araku Valley in India, attended by 138 NGO field practitioners and experts from 21 countries. On 12 October, as part of COP 11 to the Convention on Biological Diversity (CBD) in Hyderabad, FACTS also featured in the press conference for Livelihoods Day, promoting its approach and presenting some of the first articles for the FACTS special issue on "Livelihoods" to journalists and participants.

Launch events

Launch events for the special issues: a format that provides a platform for certain contributors and showcases the FACTS approach as a means of collecting and disseminating the good practices reported in the journal.



XI Conference of Parties
CONVENTION ON BIOLOGICAL DIVERSITY
HYDERABAD INDIA 2012

Other development forums

Participation in other “civil society” or “development” forums to set out the aims and ambitions of FACTS, attract new contributors and lay the foundations for future partnerships.

- In September, the FACTS initiative was presented at the World Assembly of CIVICUS, the World Alliance for Citizen Participation, held in Montreal. The international event attracted close on 800 participants, including representatives of civil society, governments, the private sector and donors, under the overarching theme of “Acting together for a just world” and the 2012 special focus on “Defining a new social contract – making the future together”. It was also an opportunity for the Institute to build on its collaboration with CIVICUS in the wake of Rio+20 and to discuss the terms of a partnership on launching a joint special issue on democratic innovations.

- The 5th World Forum Convergences for the Millennium Development Goals was held in Paris from 19-21 September. FACTS Reports collaborated to the Convergences 2015 Awards besides the City of Paris, newspaper Le Monde and the European Commission.

Impact on traffic statistics

This series of initiatives had an immediate impact reflected in the website traffic statistics: 76,000 unique visitors, double the level of 2011, and 340,000 page views. The journal’s reach is now broadly international, in both developed and emerging countries: the USA, Germany, France, Brazil, India, Nigeria, China and the UK, to name but the heaviest users.

STRATEGIC DIRECTIONS IN 2013

- > **Finalise the special issues** currently in hand, “Democratic Innovations” (in partnership with CIVICUS), “Haiti” (helping to build a “development brief”).
- > **Step up the promotion of articles** already published and develop new tools (brochure, workshops, etc.) to capitalise on the existing structure and consolidate the network.
- > **Target other themes** – e.g. waste in developing countries, Asian cities, food security – to extend the journal’s reach to other field practitioners in different communities and widen its impact and recognition.

Research partnerships: foresight studies



Flagship theme_

Cities transition

New activity_

RAMSES, a European project on adapting cities to climate change

Period_

2012-2016

Partners_ 13 research and international organisations

Other promotion initiatives_

IVE/UNEP 2011/2012 study on measuring urban environmental performance.

- Presentation at 3 international events: Rio+20, World Urban Forum, World Bank Symposium
- Publication: UNEP working paper "Framework Elements for Assessing Urban Environmental Performance"

Working closely with its international network of partners, the Institute is developing a programme of studies to explore the major changes that lie ahead. Its collaborative approach is based on interactions with researchers and investigation of constantly evolving issues.

Cities, continually growing in number across the globe, are complex networks in which all the key issues of sustainable development come to a head: minimising environmental footprint, meeting needs for food and essential services, social and economic inclusion. They are also dynamic hubs where city managers and other regional players can forge new tools to aid in meeting these challenges.

In preparing for the transition to greater sustainability, the issue of measurement is paramount: what metrics are required, what impacts should be taken into account, how is progress to be compared, determined and monitored? These were the issues addressed by a study conducted by the Institut Veolia Environnement in 2011 on behalf of the United Nations Environment Programme (UNEP).

Capitalisation

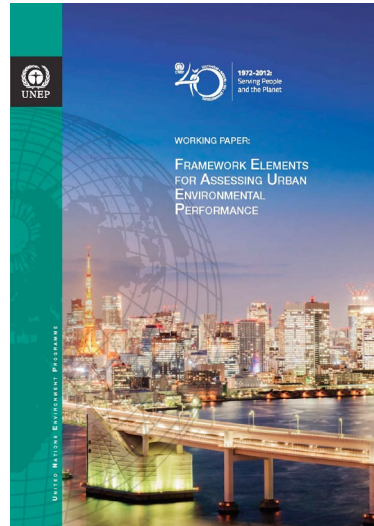
Capitalising on the results of the study, the Institute divided its efforts in 2012 into two key phases:

- promoting the Institute's work conducted on behalf of UNEP on "Measuring urban environmental performance" by disseminating its results to a wider audience;
- building on the outcomes with new partners through a European partnership: RAMSES.

Over the course of 2012, the Institut Veolia Environnement strengthened its links with the leading international organisations tackling the issues of urban development, and presented the findings of its study at a number of landmark events:

- Rio+20 United Nations Conference on Sustainable Development, during the joint seminar organised on 18 June by UNEP, the City of Gwangju and ICLEI at the ICLEI Global Town Hall as part of the Global Initiative for Resource Efficient Cities. After an opening address by the Mayor of Gwangju, the Institut Veolia Environnement set out the framework for discussions of the indicators during the session, which was moderated by David Miller, former Mayor of Toronto and Chair of C40.
- 6th session of the UN Habitat World Urban Forum held in Naples from 1-7 September. The Institute took part in the meeting on 4 September of the Steering Committee of the Global Initiative for Resource Efficient Cities, organised by UNEP and attended by other partner organisations including the World Bank, ICLEI, UN Habitat, UCLG and OECD.
- 6th Urban Research and Knowledge Symposium organised in Barcelona from 8-10 October by the World Bank and the City of Barcelona on the theme of "Rethinking Cities: Framing the Future". The Institute was invited to present a paper at the session on "Urban metrics: Moving beyond city data fragmentation", a panel also attended by representatives of McKinsey, the Carbon Disclosure Project, Siemens, the World Bank and Urban China Initiative.
- In France, the 3rd Entretiens du Grand Paris conference on the theme of "Global city, neighbourhood life: between attractiveness and sustainability", organised by Veolia Environnement, EDF and Paris-Dauphine University on 11 October.

In addition to the above, a UNEP report summarising the Institute's study's main conclusions was published at the beginning of 2013 under the title "Framework Elements for Assessing Urban Environmental Performance".



RAMSES - European Research Project

All these follow-up phases have won recognition for the Institute as a contributor to reflection on urban transformation. In 2012, the Institut Veolia Environnement also received European Commission accreditation as a research organisation, essential in order to take part in projects under the 7th EU Framework Programme for Research (FP7). On the strength of such recognition, and also of the natural links that exist between the Institute and the Veolia Group, a key provider of urban services, the Institute was invited to become one of the partners to the RAMSES project.

RAMSES is a European project selected through the European call for proposals on "Strategies, Costs and Impacts of Adaptation to Climate Change" under the 7th EU Framework Programme for Research (FP7).

The extent to which cities and regions are exposed to what may often be extreme weather events – storms, drought, flooding, heat waves, etc. – varies according to their location. Each city should be prepared for a specific combination of possible impacts, of varying degrees of likelihood, according to its infrastructure, characteristics, geographical location and social and economic circumstances.

The aim of the RAMSES project – “Reconciling Adaptation, Mitigation and Sustainable Development for Cities” - is to develop new methods for:

- quantifying the impacts of climate change,
- evaluating the resilience of urban infrastructures to these impacts.

Ultimately, it aims to propose a rigorous, pragmatic and standardised framework of analysis to develop adaptation strategies for implementation by EU cities.

The project was officially launched in Potsdam on 14 and 15 November, in the presence of all the partners. A roadmap and schedule of work covering the entire period of the project have already been drawn up.

Through these new interactions, the Institut Veolia Environnement intends to deploy all its resources, from its publications and conferences to its network of experts, in order to contribute to the intellectual debate. Its work seeks also to identify useful avenues of inquiry in support of an ambitious objective: promoting the transition to cities that are less wasteful of resources, more efficient, more inclusive and more resilient.

RAMSES AT A GLANCE

Duration_ 5 years

Partners_

Research or Higher Education Organizations (non profit)

Potsdam-Institut für Klimafolgenforschung e.V. - PIK - Germany
London School of Economics and Political Science - LSE - United-Kingdom
University of Newcastle upon Tyne (Tyndall Centre) - UNEW - United-Kingdom
Vlaamse Instelling voor Technologisch Onderzoek N.V. - VITO - Belgium
Institut du développement durable et des relations internationales - IDDRI - France
Fundación Tecnalia Research & Innovation - TECNALIA - Spain
Institut Veolia Environnement - IVE - France
Norges teknisk-naturvitenskapelige universitet - NTNU - Norway

Non-governmental and international organizations (non profit)

World Health Organization, Europe Regional Office - WHO EURO - International
ICLEI Local Governments for Sustainability, European Secretariat - ICLEI - International

SMEs

T6 Ecosystems s.r.l. - T6 ECO - Italy
The Climate Centre sprl - TCC - Belgium
Climate Media Factory UG - CMF - Germany

STRATEGIC DIRECTIONS IN 2013

- > **Strengthen partnerships** with international organisations such as UNEP to allow further in-depth dialogue on tools to facilitate the transformation of cities.
- > **Use the Institute’s knowledge capitalisation tools** to establish the state of the art and produce an analysis of urban resilience indicators as part of the RAMSES project.

Outlook

Key events in 2013

JANUARY

- > Production of a doodle video (animated clips in the form of speeded-up hand-drawn videos) presenting S.A.P.I.EN.S. and showing new ways of communicating science.

MARCH

- > Participation in the World Life Sciences Forum, Biovision in Lyon. Moderation of the session “Using natural resources without consuming the Planet”.

APRIL

- > Meeting of the Foresight Committee at the headquarters of the International Union for the Conservation of Nature (IUCN) in Gland, Switzerland, plus a side event seminar on preparations for the 2014 Conference on Ecosystem Restoration.

MAY

- > Meeting of the Board of Directors.
- > Launch of the Institut Veolia Environnement revamped website.

JUNE

- > 2nd progress meeting on the RAMSES project at the London School of Economics, UK.

JULY

- > Preparatory meeting in Washington DC for the Conference in 2014 with the Water Sciences and Technology Board of the US National Research Council and other possible associated partners.
- > Event in Paris to promote the FACTS Reports special issue on “Livelihoods”, attended by representatives of partner organisations, authors and the media.

SEPTEMBER

- > Publication of the Institut Veolia Environnement Activity Report.
- > Participation of the Institute in the workshop of the UNEP International Resource Panel, on September 24-25. The event is held back to back with the Ecocity World Summit 2013 hosted by the city of Nantes in France.

OCTOBER

- > 1st RAMSES Stakeholder Dialogue “Co-creating the climate resilient city: embedding adaptation into city processes and strategies” in Belgium.

NOVEMBER

- > 3rd progress meeting on the RAMSES project in Antwerp, Netherlands.
- > Civicus Board Meetings, promotion opportunities of the joint special issues of FACTS reports.

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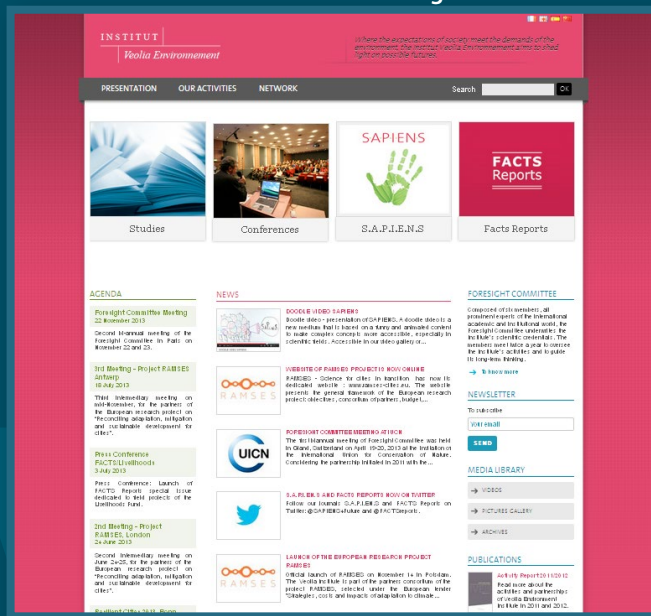
Institut Veolia Environnement would like to thank

Christine Rodwell who worked on FACTS Reports until November 2012

The interns who contributed to its work in 2012 and 2013

Elodie Breton from the Institut Supérieur de l'Environnement
and **Veridiana Sedeh** from Sciences-Po Paris.

www.institut.veolia.org/en



Doodle video of S.A.P.I.E.N.S

http://www.youtube.com/watch?v=XDMFed_SFSE



So as to ensure that knowledge is widely disseminated and exchanged, Institut Veolia Environnement makes its entire collection of studies and publications freely available to everyone. Study reports, conference summaries and articles can be accessed on

www.institut.veolia.org/en

www.sapiens-journal.org

www.factsreports.org



YouTube - Veolia Institute Channel

www.youtube.com/user/VeoliaInstitute



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