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Water and Socio-Environmental Challenges
Methodological Approaches in Social Science Research

Puducherry
December 4th to 8th, 2017

Organised by
Centre for Study of Social Exclusion and Inclusive Policy, Pondicherry University
Department of Social Sciences, French Institute of Pondicherry

Third Edition
SOCIAL SCIENCES WINTER SCHOOL
IN PONDICHERRY

2017
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Invited tutors: Felix Padel, Sangeeta Dasgupta, Raphaël Mathevet, Jayaprakash P. Rao, Ravi Rebbapragada

Workshop 3 – Tackling Socio-environmental Issues: Stakes and Potentials of Using Geospatial Technologies

Coordinators: Anne Casile, Rémy Delage
Invited tutors: Stéphanie Duvail, Kumar Akhilesh, Vincent Herbreteau, Shanti Pappu, Olivier Telle

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1.
THE CONCEPT OF THE SOCIAL SCIENCES WINTER SCHOOL IN PONDICHERRY
The Social Sciences Winter School in Pondicherry (SSWSP) is a multi-year programme of intensive and multidisciplinary training workshops addressing theoretical and methodological issues in social sciences research. The SSWSP stems from an Indo-French cooperation in social sciences between the French Institute of Pondicherry (IFP) and Pondicherry University. The school provides each and every one with the opportunity of sharing experiences and research ideas.

MAIN OBJECTIVES

This SSWSP has three main objectives:
- To create a highly efficient tool in research capacity-building;
- To strengthen the Indo-French cooperation in research in India;
- To consolidate a community of young scholars, senior scientists and experts.

More tangible results and outcomes are provided:
- Development of a website in English (with digital resources);
- Validation through delivery of certificates upon completion of the training;
- Writing of a scientific, pedagogical and technical report.

CONSORTIUM AND CO-FINANCING

Institutional partnership is based primarily on the collaboration between the French Institute of Pondicherry (IFP, MAE-CNRS) and the University of Pondicherry. Like previous editions (2014 and 2016), the SSWSP benefits from the scientific and financial cooperation of the French National Research Institute for Sustainable Development (IRD), of the Research Units Development, Institutions and Globalisation (DIAL, Paris; IRD-University Paris-Dauphine) and Centre for South Asian Studies (CEIAS, Paris; EHESS-CNRS), and of the Centre of Study of Social Exclusion and Inclusive Policy (School of Social Sciences & International Studies, Pondicherry University). In this 2017 edition, the Research Unit “Patrimoines Locaux et Gouvernance” (PALOC, Paris, IRD, and Muséum National d'Histoire Naturelle) has joined the team of supporting scientific laboratories. Moreover, the SSWSP 2017 acknowledges the financial support of Bonjour India, a large Indo-French initiative organised from November 2017 to February 2018, covering around 100 programmes and projects in over 30 cities across 20 states and union territories in India around the various facets of “Water”. A special coverage of the SSWSP 2017 appears here: https://www.bonjour-india.in/events/water-the-social-sciences/

ORGANISATION

Preparation and monitoring of the event is handled by a steering and a scientific committee composed of experienced researchers in social sciences research and training (see details of the Organisation committees in Appendices). The steering committee includes Dr. Anne Casile (IRD, PALOC and IFP, Pondicherry), Dr. Rémy Delage (CNRS, CEIAS, Paris, associated with the IFP), Dr. Thanuja Mummidi (Centre for Study of Social Exclusion and Inclusive Policy, Pondicherry University), and Dr. Christophe Jalil Nordman (IRD, DIAL and IFP, Pondicherry).
For the 2017 edition, the local organisation team counts the active collaboration of the coordinator of Workshop 1 Dr. Rémi de Bercegol (CNRS, PRODIG, Paris), Mr. Subra Roy Chowdhury (Pondicherry University), Mrs Vanitha Bruno (IFP, Administrative Manager), under the scientific and logistic supports of IFP direction, administration and General Secretary.

TRAINING PROGRAMME 2017

The training runs through five consecutive days and is articulated around two poles: the plenary sessions and the methodological workshops, as detailed below:

- **The plenary sessions**: for one day (December 4th 2017) there will be four talks, presented by experienced, European and Indian researchers. The aim is to present the state-of-the-art, overview of the theoretical and methodological issues on a particular research topic.

- **The methodological workshops**: for the following three full days (December 5th 2017–December 7th 2017), three workshops à la carte for around 50 trainees are devoted to tutorials. It will discuss theoretical models, text analysis, analytical tools, survey methods, data collection and analysis, etc.

- **Knowledge and project restitution**: The training ends (December 8th 2017) with a half-day of knowledge restitution, under the form of a simulated research project designed by each group and putting to practice what they have learnt, and the delivery of certificates to participants.

PROFILE OF THE STUDENTS

A total of 50 students have been selected (out of 130 applications) for the edition 2017.

**Gender:**
26 female students (54%), 24 male students (46%).

**Age:**
15 students between 20 and 25 years old (30%), 26 students between 26 and 30 (52%), 7 students between 31 and 35 (14%), 2 more than 36 years old (5%).

**Education:**
M.A. (5) / M. Phil (6) / Ph.D. candidates (39)

**Disciplines or research fields:**
Institutions *(numbers)*:

**India**
- Delhi: Jawaharlal Nehru University (11), University of Delhi(3), South Asian University(2)
- Haryana: Maharishi Dayanand University(2)
- Karnataka: Institute for Social and Economic Change (1)
- Madhya Pradesh: IIT Indore (1)
- Maharashtra: TISS(1), IIT Bombay(2), IIPS (3), Pune University(1)
- Odisha: Ravenshaw University(1)
- Pondicherry: Pondicherry University (17)
- Tamil Nadu: Madras University (1)
- Telangana: TISS, Hyderabad (1)

**Germany**
- University of Bonn (1)

**Australia**
- University of Technology Sydney (UTS) (1)

**United States of America**
- University of Pennsylvania (1)
PROFILE OF EXPERTS / TRAINERS

The team of trainers is multidisciplinary and international (half from India, half from France and United Kingdom), composed according to the chosen theme of the SSWSP 2017 (their bio-data are reported in appendices):

| WORKSHOP 1: URBAN IDEALS AND SANITATION EXPERIENCES: TOWARD A NEW RESEARCH AGENDA |
|---------------------------------|-----------------|-----------------|
| NAME                           | DISCIPLINE     | INSTITUTION                              |
| Rémi de Bercogol               | Geography      | CNRS, PRODIG, Paris                      |
| Shubaghato Dasgupta            | Economics      | Sci-Fi team, Centre for Policy Research, New Delhi |
| Anju Diwedi                    | Anthropology   | Sci-Fi team, Centre for Policy Research, New Delhi |
| Nathalie Jean-Baptiste         | Geography      | Ardhi University, Dar Es Salaam; Technical University of Darmstadt, Tanzania |
| Ambarish Karunanith Ambar      | Engineering    | Sci-Fi team, Centre for Policy Research, New Delhi |
| Chloé Leclère                  | Economics      | GATE-Lyon-Saint Etienne, Lyon; CSH, New Delhi |
| Arkaja Singh                   | Law            | Sci-Fi team, Centre for Policy Research, New Delhi |

| WORKSHOP 2: EXCLUSIONARY REGIMES AND RESOURCE APPROPRIATION: CONCEPTUAL AND METHODOLOGICAL DYNAMICS |
|---------------------------------|-----------------|-----------------|
| NAME                           | DISCIPLINE     | INSTITUTION                              |
| Thanuja Mummidi                | Anthropology   | Pondicherry University, Puducherry       |
| Sangeeta Dasgupta              | History        | JNU, New Delhi                            |
| Raphaël Mathevet               | Geography      | IFP, Puducherry                           |
| Felix Padel                    | Anthropology   | University of Sussex, Brighton            |
| Jayaparkash P. Rao             | Sociology      | Osmania University, Hyderabad             |
| Ravi Rebbapragada              | Rural Development | Mines, Minerals & People, Vishakhapatnam |

| WORKSHOP 3: TACKLING SOCIO-ENVIRONMENTAL ISSUES: STAKES AND POTENTIALS OF USING GEOSPATIAL TECHNOLOGIES |
|---------------------------------|-----------------|-----------------|
| NAME                           | DISCIPLINE     | INSTITUTION                              |
| Anne Casile                    | Archaeology    | IRD, PALOC, Paris; IFP, Puducherry       |
| Rémy Delage                    | Geography      | CNRS, CEIAS, Paris                       |
| Stéphanie Duvail               | Geography      | IRD, PALOC, Paris                         |
| Kumar Akhilesh                 | Archaeology    | SCHE, Chennai                             |
| Vincent Herbreteau             | Geography      | IRD, ESPACE-DEV, Paris                   |
| Shanti Pappu                   | Archaeology    | SCHE, Chennai                             |
| Olivier Telle                  | Geography      | CNRS, Géographies-Cités, Paris; CSH, New Delhi |
2.
DETAILED PROGRAMME
The major thread of this 2017 Social Sciences Winter School will be to address issues at the interface between society and environment, especially around water and resource management, through the lens of the social sciences, in different milieus and scale of interpretation, and with different thematic focus and methodological frameworks.

Most research in social sciences has historically focused on social, political, cultural and economic systems somewhat in isolation from their biophysical surroundings, the environment being considered as merely a backdrop for social actions and the functioning of social systems. However, it is now widely recognised that human societies cannot be understood without analysing their interactions with the environments that supported them; as it is also widely understood that most terrestrial and near-shore environments have been and are profoundly shaped by human actions and policies.

Indeed, the past five decades or so have seen the traditional nature/culture divide being increasingly challenged on the conceptual and analytical ground of various field disciplines. Along with the growing awareness of the ecological and social challenges facing society and all life on earth, the study of socio-environmental issues has become of major concern to a wide research community of both scholars and practitioners from various disciplines, so that we now refer to “environmental social sciences”.

Themes and scientific questionings and approaches to explore the complex relationships between society and environment are many and call for interdisciplinary thinking. Any socioenvironmental issue – around resource perception, use, management, politics, appropriation, water access, sustainability, depletion, environmental inequalities and injustices, health and sanitation, cultural landscapes, land use and land changes, vulnerabilities to environmental hazards and changes, social construction of knowledge on the environment, and so on – can be studied from a multiplicity of angles and disciplines. Data and information can be extracted and produced from various areas and fields. Approaches are heterogeneous, qualitative and quantitative, combining localised and multi-sited research, diachronic and synchronic perspectives, and statistical, discursive or spatial analyses. There is no single methodological nor theoretical framework.

This year, the objective of the SSWSP is to expose students and young researchers to research frontiers in this field of environmental social sciences. Following the framework of the past editions, the SSWSP will be organised according to three complementary axes:

(a) Plenary sessions at the beginning of the school: three presentations will introduce different thematic and methodological research of environmental social sciences.

(b) Three thematic workshops lasting four days: issues related to social needs and sanitation experience (Workshop 1), resources appropriation (Workshop 2), the use of geospatial technologies as a research tool (Workshop 3), will be addressed from various cross-cutting angles.
(c) Restitution, discussions, exchanges: participants of each workshop will work on a research design as a group based on the four days of training and make their presentation.

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Workshop 1 – Urban Ideals and Sanitation Experiences: Toward a New Research Agenda
Coordinator: Rémi de Bercegol
Invited tutors: Shubhagato Dasgupta, Anju Dwivedi, Nathalie Jean-Baptiste, Ambarish Karunanithi Ambar, Chloé Leclère, Arkaja Singh

Workshop 2 – Exclusionary Regimes and Resource Appropriation: Conceptual and Methodological Dynamics
Coordinator: Thanuja Mummidi
Invited tutors: Sangeeta Dasgupta, Raphaël Mathevet, Felix Padel, Jayaprakash P. Rao, Ravi Rebbapragada

Workshop 3 – Tackling Socio-environmental Issues: Stakes and Potentials of Using Geospatial Technologies
Coordinators: Anne Casile, Rémy Delage
Invited tutors: Stéphanie Duvail, Kumar Akhilesh, Vincent Herbreteau, Shanti Pappu, Olivier Telle
Programme

SUNDAY 3 December

MONDAY 4 December

9:00-10:00   Registration

10:00-11:00  Formal Inaugural of the Social Sciences Winter School in Pondicherry 2017

**Inaugurated by:**
Madame Catherine Suard, Honourable French Consul Générale in Pondicherry and Chennai, Consulat Général de France in Pondicherry
Prof. Gurmeet Singh, Honourable Vice-Chancellor, Pondicherry University

**Presided by:**
Prof. Frédéric Landy, Director, French Institute of Pondicherry

**Presentation of Social Sciences Winter School in Pondicherry 2017:**
Dr. Anne Casile (IRD, PALOC & IFP), Dr. Rémy Delage (CNRS, CEIAS), Dr. Thanuja Mummidi (CSSE & IP, Pondicherry University), Dr. Christophe Jalil Nordman (IRD, DIAL & IFP)

**Vote of thanks:**
Dr. Hélène Guétat-Bernard, Head of Social Sciences Department, French Institute of Pondicherry

Tea/Coffee break

11:15-12:00  Plenary talk 1

**Felix Padel**, Research Associate, Centre for World Environmental History, University of Sussex
“Adivasis, Resource Conflicts, and the Future of India’s Ecosystems”

12:00-12:45  Plenary talk 2

**Frédéric Landy**, Director, IFP; Professor, Department of Geography, University of Paris Nanterre
“Does Irrigation Water Mirror Society?”

Lunch break

14:15-15:00  Plenary talk 3

**Arkaja Singh**, Research Fellow, Centre for Policy Research, Sci-Fi team, New Delhi
“Managing Urban Sanitation Through a River Pollution Perspective”
15:00-15:45  Plenary talk 4

Stéphanie Duvail, Research Fellow, French National Research Institute for Sustainable Development (IRD), PALOC, Paris

“Linking Floods, Ecosystem Services and User Strategies to Study the Changing Dynamics of African Deltas”

Tea/Coffee break

16:00-16:30  Synthesis and presentation of the organisation of the week

TUESDAY 5 December  METHODOLOGICAL WORKSHOPS

9:00-12:30

Workshop 1 – Urban Ideals and Sanitation Experiences: Toward a New Research Agenda
Training team: Rémi de Bercegol, Shubhagato Dasgupta, Anju Dwivedi, Nathalie Jean-Baptiste, Ambarish Karunanithi Ambar, Chloé Leclère, Arkaja Singh

Workshop 2 – Exclusionary Regimes and Resource Appropriation: Conceptual and Methodological Dynamics
Training team: Thanuja Mummidi, Sangeeta Dasgupta, Raphaël Mathevet, Felix Padel, Jayaprakash P. Rao, Ravi Rebbapragada

Workshop 3 – Tackling Socio-environmental Issues: Stakes and Potentials of Using Geospatial Technologies
Training team: Anne Casile, Rémy Delage, Stéphanie Duvail, Kumar Akhilesh, Vincent Herbreteau, Shanti Pappu, Olivier Telle

Lunch break

14:00-17:00

Continued

WEDNESDAY 6 December  METHODOLOGICAL WORKSHOPS

9:00-12:30

Continued

Lunch break

14:00-17:00

Continued
THURSDAY 7 December  

METHODOLOGICAL WORKSHOPS

9:00-12:30  
Continued

Lunch break

14:00-18:00  
Continued
Group work initiation: preparation of knowledge/project restitution supervised by the experts

FRIDAY 8 December  

FINAL DAY

9:00-11:00  
Group work: preparation of knowledge/project restitution supervised by the experts

Tea/Coffee break

11:30-13:00  
Group work: preparation of knowledge/project restitution supervised by the experts

Lunch break

14:00-15:30  
Group work: preparation of knowledge/project restitution supervised by the experts

Tea/Coffee break

16:00-18:00  
Knowledge and project presentation by trainees (25 minutes per presentation)  
Valedictory Address by Prof. P. Natarajan, Controller of Examinations (i/c), Pondicherry University  
Delivery of certificates  
Feedback from resource persons, students and scientific committee  
Vote of thanks

18:30-22:00  
Cocktail dinner at IFP
3.
PLENARY SESSIONS
Talk 1: “Adivasis, Resource Conflicts, and the Future of India’s Ecosystems”

By Felix Padel, Research Associate, Centre for World Environmental History, University of Sussex

As ‘Natural Resource Management’ becomes a major subject of study, should the tribal or indigenous peoples who developed systems of living in the heart of nature, drawing directly on its gifts to live, without on the whole diminishing its extent, be our main teachers? Their systems of ‘Adivasi Economics’ (Padel 2013) exemplify real, long term sustainability - as opposed to ‘sustainable development’ that is sustainable in name only, since geared to short term profits. When Jairam Ramesh was Minister for Environment and Forests he wrote a revealing essay drawing attention to ‘two cultures’ dictating opposite policy approaches to the environment (Ramesh 2010): business interests and economic analysis assess resources in terms of profits to be made, while conservationists try to protect vulnerable ecosystems from the devastating impacts of industrialisation, in terms of dams, mines and factories. While environmentalists win most arguments in terms of logic, ‘money speaks louder than words’: local people’s movements against ‘development projects’ often fail, repeatedly undermined and divided by vested interests controlling police, politics and media, which often portray them as ‘anti-development’. In many ways the Maoist conflict in central India is a resource war dressed up by both sides as an ideological one, and it undermines Adivasi movements by polarising communities; while conservationists who promote a policy of removing Adivasis from sanctuaries harden the divide-and-rule colonial policies that separated tribal people from the ecosystems they have always lived in. An ecological consciousness that values nature for itself has deep roots in India; dozens of organic farmers in every state maintain ancient skills in cultivation; and tribal movements against forced dispossession and devastation of their environment act to safeguard India’s future. ‘The health of the mountains is the wealth of the plains’ as the movement to protect mountains in north Andhra Pradesh proclaimed. Aren’t natural water systems, forests and biodiversity the best guarantee of wellbeing for future generations in India? And aren’t Adivasis in many ways the guardians of the wild ecosystems that a balanced economy will always depend on? Is there still time and opportunity for us in the ‘mainstream’ to start learning from the tribal cultures we have exploited and oppressed, before it’s too late for them or for us?

Selected References


Talk 2: “Does Irrigation Water Mirror Society?”

By Frédéric Landy, Director, French Institute of Pondicherry; Professor, Department of Geography, University of Paris Nanterre

Which relationships between society and irrigation? Can we have a purely agro-technical vision, seeking to maximize the economic productivity of each drop of water? To what extent is this irrigation not embedded in society, determined by a system of values and relationships? It is to ask another old question in geography and social sciences, the place of natural determinism: to what extent do physical factors (potentials and constraints of the “natural” environment) explain the management of water?

We will first see how water is the “mirror of society” (Aubriot, 2004): in some cases, the social structures largely explain the functioning of peasant irrigation systems. But in others, it is clear that natural triggers dominate, since sometimes differences in collective action can be explained by the nature of the soil or the position within the irrigated command area. These many perspectives shed light on trendy questions about “commons” or the “Anthropocene”.

Selected references

O. Aubriot. 2004. L’eau miroir d’une société, CNRS Ed.


Talk 3: “Managing Urban Sanitation Through a River Pollution Perspective”

By Arkaja Singh, Research Fellow, Centre for Policy Research, Sci-Fi team

Untreated human excreta is the single biggest source of river pollution in some of the major rivers in India, and this obviously has major implications for river eco-systems, drinking water security and human health. It is also a cultural and aesthetic problem, even more so in ancient river side cities, and in the context of the ‘holy dip’ in sacred rivers. Indian environmental movements have also valorised the integrity and sanctity of rivers, and their life sustaining role in Indian culture. In my talk I will discuss how our legal and institutional frameworks have responded to the challenge of pollution from untreated human excreta. The legal and institutional response is influenced by the concerns of environmental movements, but is really driven from within by a heavily engineering oriented perspective. As a result, we have stringent and high environmental standards, but no clear idea of what the responsibilities of various public authorities are.

Selected references


New Item Published in Hindustan Times Titled ‘And Quiet Flows the Maily Yamuna’, Supreme Court Writ Petition (Civil) 725 of 1994.


Talk 4: “Linking Floods, Ecosystem Services and User Strategies to Study the Changing Dynamics of African Deltas”

By Stéphanie Duvail, Research Fellow, French National Research Institute for Sustainable Development (IRD), PALOC

The lower floodplains and deltas, where fresh water meets the ocean, are very specific and unique landscapes or rather “waterscapes” (Hoag 2013), shaped by the dynamics of the seasonal and tidal flooding. In Africa, a highly productive mosaic of riverine forests, flooded grasslands and mangroves have developed in these deltas and support diversified economic activities adapted to the flooding patterns. Traditionally these include fishing, livestock keeping, flood-recession agriculture and tidal rice cultivation, hunting and gathering, utilization of forest products among others, conducted according to negotiated resource access and sharing rules that are flexible and multi-user.

These waterscapes are sensitive to changes in the flooding pattern linked to climate change or, more frequently, to land-use changes in the river catchment. For various reasons, including low investment into hydraulic infrastructure in the postcolonial era, many African deltas have, until recently, maintained these flood dependent socio-ecosystems. This is set to change as several new hydropower dams and irrigation systems are under consideration or implemented in an African continent which is
promoted as the next investment frontier, following a decade of high Gross Domestic Product (GDP) growth rates. Being wet, flat and fertile, deltas have been targeted for large-scale land conversion including the building of embankments to establish large-scale irrigation or aquaculture, leading to land and resource dispossession for the traditional delta users. On the other hand, deltas are recognised as important ecosystems well beyond their physical perimeter as biodiversity hot-spots and important bird areas, as carbon sinks, coastal defence and nursery areas where the juveniles of fish and crustaceans grow before entering neighbouring coastal waters where they are the target of valuable fisheries. The total economic value of all the services provided by coastal wetlands including deltaic systems with mangroves is estimated around 200,000 US$/hectare/year (de Groot et al. 2012), the second most valuable ecosystem globally. The recognition of these biodiversity values leads to their heritagization through various conservation tools such as Ramsar Sites, Protected Marine Areas, Forest or Biosphere Reserves, applied sometimes in contradiction with the dynamic nature of the local economies and with adverse effects on resource access for local users (Benjaminsen and Bryceson 2012).

Describing the functioning of these socio-ecosystems; quantifying the interaction between flood scenarios, ecosystem services and user strategies; exploring the impacts of various and contradictory public policies requires the mobilization of multidisciplinary teams and a dialogue with the local users and policy makers around scenarios for the future of these coastal wetlands. This presentation draws examples from West and East Africa deltas.

Selected references


4. WORKSHOPS
Workshop 1

Urban Ideals and Sanitation Experiences:
Toward a New Research Agenda

Coordinator:

- Rémi de Bercegol
  Geographer - Urbanist (CNRS, PRODIG, Paris)

Invited tutors:

- Shubaghato Dasgupta
  Economist (Sci-Fi team, Centre for Policy Research, New Delhi)

- Anju Diwedi
  Anthropologist (Sci-Fi team, Centre for Policy Research, New Delhi)

- Nathalie Jean-Baptiste
  Geographer - Urbanist (Ardhi University, Dar Es Salaam; Technical University of Darmstadt)

- Ambarish Karunanith Ambar
  Engineer (Sci-Fi team, Centre for Policy Research, New Delhi)

- Chloé Leclerc
  Economist - Statistician (GATE-Lyon-Saint Etienne, Lyon; CSH, New Delhi)

- Arkaja Singh
  Lawyer (Sci-Fi team, Centre for Policy Research, New Delhi)

Argument-purpose

After declaring 2008 as the International Year of Sanitation, the United Nations General Assembly officially recognized in 2010 access to drinking water and sanitation as a human right. Sanitation is thus of growing interest to policy makers and economists and is an expending research field. To understand the complexity of sanitation challenges, social scientists usually use different type of data, which requires the mobilization of specific knowledge.

The objective of this panel is to characterize the specificities of sanitation experiences in towns and cities of the global South. It aims at developing a research agenda for analysing critically the strategies currently in place to universalize the service to all, and for apprehending the emergence of alternative models, which could also contribute to this universalization.
For this, relying on examples taken from Africa and Asia with a focus on India, we will re-read the history of sanitation models, from the western sanitary ideal of the XIX century to its segregated post-colonial effects. We will examine the cultural aspects of the taboos surrounding the sectors to explain its relegation and its societal consequences. We will critically look at centralized sanitation policies, within a broader governance framework to explain its successes and failures, and the existence of alternatives offers. Non-state actors are indeed proposing solutions to households to compensate the absence of public service, whether they be sellers of toilets, sanitary block managers or pit service providers. We will examine the reinforcement of these private and civil experiences, often informal but far from being unorganized. This will lead us to question a potential paradigm shift from a model based on conventional centralized sewer lines, towards others solutions that can be decentralized or off-grid solutions, sometimes constructed on low-cost technologies and mostly based on market logics.

What are these systems and why are they being looked at a potential solution to expand sanitation services? Who are these non-state actors implementing them? Where, and how, are they involved in the urban sanitation market? To what extent do their offers adapt to the economic conditions of households and urban dynamics in developing cities? More generally, what are the strengths and limitations of this non-public approaches? How do these initiatives contribute to the renewal of public sanitation policies?

By questioning the strengths and limitations of these systems, we wish to understand not only their contribution but also their political meaning for the expansion of a heterogeneous right to sanitation for all in an unequal city. In a final stage, we will develop a research agenda for sanitation aiming at a better articulation between public action, private sector and civil experiences. At the end of the course the students will have understood what still needs to be done in this field, as well as the limitations of survey data to study these questions and how to overcome them.

The course will combine interactive lecture sessions and tutorials over the three days. In the lecture sessions students will be exposed to the research frontier in the field of social and geographical mobility.

**Partners:**
Centre for Policy Research (Sci-Fi Team), Technical University of Darmstadt, University of Kisumu, Ardhi University, Ecole Normale Supérieure (Lyon), Centre National de Recherche Scientifique (Prodig et Géographie-Cités)
## Workshop 1 Schedule

### DAY 1 – TUESDAY, DECEMBER 5

<table>
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<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>9:00-9:30</td>
<td>Opening speech&lt;br&gt;Introduction and objectives of the workshop&lt;br&gt;Presentation of trainers and participants</td>
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<tr>
<td>9:30-11:00</td>
<td>Urban Ideals and Sanitation experiences: a paradigm shift?</td>
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<tr>
<td>11:00-11:15</td>
<td>Coffee/Tea break</td>
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<tr>
<td>11:15-12:30</td>
<td>Swachh Bharat Abiyan: from taboo to totem emblem</td>
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<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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<tr>
<td>14:00-15:30</td>
<td>Understanding the technicality issues of sanitation</td>
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<tr>
<td>15:30-15:45</td>
<td>Coffee/Tea break</td>
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<tr>
<td>15:45-17:00</td>
<td>Film: in deep shit (36 minutes) and discussion on workers’ rights</td>
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### DAY 2 – WEDNESDAY, DECEMBER 6

<table>
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<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>9:00-10:30</td>
<td>An anthropology of toilets</td>
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<tr>
<td>10:30-10:45</td>
<td>Coffee/Tea break</td>
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<tr>
<td>10:45-12:30</td>
<td>An historical perspective on water discrimination in Nairobi, Kenya</td>
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<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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<tr>
<td>14:00-15:00</td>
<td>Decrypting Census Data on Sanitation</td>
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<td>15:00-15:15</td>
<td>Coffee/Tea break</td>
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<tr>
<td>15:15-17:00</td>
<td>Use of cartography to map inequality</td>
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### DAY 3 – THURSDAY, DECEMBER 7

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9:00-11:00</td>
<td>A multiscale analysis of floods in Dar Es Salaam, Tanzania</td>
</tr>
<tr>
<td>11:00-11:15</td>
<td>Coffee/Tea break</td>
</tr>
<tr>
<td>11:15-12:30</td>
<td>Law and practice : right to sanitation and institutional framework in India</td>
</tr>
<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
</tr>
<tr>
<td>14:00-18:00</td>
<td>Toward a research agenda: Preparation of the project by participants</td>
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### DAY 4 – FRIDAY, DECEMBER 8

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<tr>
<td>9:00-11:00</td>
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<td>Coffee/Tea break</td>
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<tr>
<td>11:15-12:30</td>
<td>Group work</td>
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<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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<tr>
<td>14:00-15:30</td>
<td>Group work</td>
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<tr>
<td>15:30-15:45</td>
<td>Coffee/Tea break</td>
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<tr>
<td>15:45-18:00</td>
<td>Group work restitution of project&lt;br&gt;Discussion of the results and the workshops&lt;br&gt;Valedictory</td>
</tr>
</tbody>
</table>
Readings and online resources

General academic articles (with free access)


Policy/practitioner oriented (with free access)

Mitlin, Diana. 2014. Towards an Inclusive Urban Planning and Practice. *Claiming the City Civil Society Mobilisation by the Urban Poor*, 15.


Engineering oriented

Centre for Science and Environment Decentralised Wastewater Treatment and Reuse Case studies of implementation on different scale – community, institutional and individual building, 2014
http://www.cseindia.org/userfiles/decentralised_wasterwater_treatment_reuse.pdf

https://doi.org/10.1002/wat2.1031.


Further readings (not necessary for the workshop)


Yojana 59, January 2015: http://yojana.gov.in/january%20Yojana%202015.pdf

Links:
http://www.cprindia.org/projects/scaling-city-institutions-india-sanitation
http://cseindia.org/content/excreta-matters-0
https://www.pseau.org/en
http://www.susana.org/
http://www.ecosanres.org
<table>
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<tr>
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<th>Name</th>
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<tr>
<td>1</td>
<td>Arun K.</td>
<td>Ph.D. candidate</td>
<td>Pondicherry University</td>
<td>Sociology</td>
<td><a href="mailto:arunkesavan266@gmail.com">arunkesavan266@gmail.com</a></td>
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<tr>
<td>2</td>
<td>Diksha Narang</td>
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<td><a href="mailto:diksha.narang12@gmail.com">diksha.narang12@gmail.com</a></td>
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<tr>
<td>3</td>
<td>Jyoti Bania</td>
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<td>Women’s Studies</td>
<td><a href="mailto:jyotibania01@gmail.com">jyotibania01@gmail.com</a></td>
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<tr>
<td>4</td>
<td>Nehal Ahmed</td>
<td>M.A.</td>
<td>Pondicherry University</td>
<td>Politics and International Relations</td>
<td><a href="mailto:na82495@gmail.com">na82495@gmail.com</a></td>
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<tr>
<td>5</td>
<td>Nuvula Brahmanandam</td>
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<td><a href="mailto:brahmameco@gmail.com">brahmameco@gmail.com</a></td>
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<td>6</td>
<td>P. Premalatha</td>
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<td>Sociology</td>
<td><a href="mailto:premalatha5ldc@gmail.com">premalatha5ldc@gmail.com</a></td>
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<tr>
<td>7</td>
<td>Rajib Das</td>
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<td>Population Studies</td>
<td><a href="mailto:iamrajibdas92@gmail.com">iamrajibdas92@gmail.com</a></td>
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<tr>
<td>8</td>
<td>Ramesha Naika</td>
<td>M.Phil.</td>
<td>Tata Institute of Social Science, Tuljapur</td>
<td>Rural Development</td>
<td><a href="mailto:rameshnaik292@gmail.com">rameshnaik292@gmail.com</a></td>
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<tr>
<td>9</td>
<td>Rituraj Pegu</td>
<td>Ph.D. candidate</td>
<td>Jawaharlal Nehru University</td>
<td>Geography</td>
<td><a href="mailto:riturajpegu9@gmail.com">riturajpegu9@gmail.com</a></td>
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<tr>
<td>10</td>
<td>Samarul Islam</td>
<td>Ph.D. candidate</td>
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<td><a href="mailto:samar_demo@outlook.com">samar_demo@outlook.com</a></td>
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<tr>
<td>11</td>
<td>Sindhuja Malladi</td>
<td>M.Phil.</td>
<td>IIT Bombay</td>
<td>Planning and Development</td>
<td><a href="mailto:sindhusharma93@gmail.com">sindhusharma93@gmail.com</a></td>
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<tr>
<td>12</td>
<td>Sisira Karekkattu Girivasan</td>
<td>Ph.D. candidate</td>
<td>Pondicherry University</td>
<td>Politics and International Studies</td>
<td><a href="mailto:sisirakg6@gmail.com">sisirakg6@gmail.com</a></td>
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<td>Sneha Zunjrute</td>
<td>M.A.</td>
<td>Savitribai Phule Pune University</td>
<td>Sociology</td>
<td><a href="mailto:snehazunjrute@gmail.com">snehazunjrute@gmail.com</a></td>
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<tr>
<td>14</td>
<td>Vishnu Yadav</td>
<td>M.Phil.</td>
<td>IIT Bombay</td>
<td>Planning and Development</td>
<td><a href="mailto:Vishnuy069@gmail.com">Vishnuy069@gmail.com</a></td>
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<td>15</td>
<td>Yaja Millo</td>
<td>Ph.D. candidate</td>
<td>Pondicherry University</td>
<td>Tourism</td>
<td><a href="mailto:milloyaja@gmail.com">milloyaja@gmail.com</a></td>
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<td>16</td>
<td>Zoya Khan</td>
<td>Ph.D. candidate</td>
<td>Jawaharlal Nehru University</td>
<td>Economics</td>
<td><a href="mailto:protozoya@gmail.com">protozoya@gmail.com</a></td>
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</table>
Workshop 2

Exclusionary Regimes and Resource Appropriation: Conceptual and Methodological Dynamics

Coordinator:

- Thanuja Mummidi
  Anthropologist (Pondicherry University, Puducherry)

Invited Tutors:

- Sangeeta Dasgupta
  Historian (Jawaharlal Nehru University, New Delhi)

- Raphaël Mathevet
  Geographer (French Institute of Pondicherry, Puducherry)

- Felix Padel
  Anthropologist (Centre for World Environmental History, University of Sussex)

- Jayaprakash P. Rao
  Sociologist (Osmania University, Hyderabad)

- Ravi Rebbapragada
  Rural Development (Mines, Minerals & People, Vishakhapatnam)

Argument-Purpose

The workshop focuses on natural resources and its spaces like the exclusionary regime (Li, 2007) but with an agenda to understand the politics of its appropriation. In this focus, the workshop will look at the indigenous populations or more specifically the scheduled tribes of India in tracing the different articulations for appropriation and thus framing the exclusionary regime. Capitalist dispossessions (nexus of the state-corporations-market) of primary resources as in land, forest and water have continued both in colonial and independent India. However, the long rhetoric of independent India for dispossession has been for the benevolence of this population under the umbrella of development. Though environmental advocacy has given leverage in resisting dispossession, the appropriation of practices of sustainability and biodiversity by the regime through articulations of ‘voluntary biodiversity off-sets’ and prefixing ‘green’ to all capitalist disposessions have diluted this advocacy potential for the STs. The onus to counter to such articulations has long been left to the people, the voices of the dispossessed.
The workshop will explore the methodological potential in understanding the voices of the dispossessed through the framework of ‘cultural politics’ and ‘reverse anthropology’.

The workshop intends to facilitate research of young scholars working on this broad theme through the following sequence for the first two and a half days: highlighting the overlap of scheduled tribe spaces and natural resources; framing the exclusionary regime; tracing articulations of appropriation and counter articulations of the dispossessed; theoretical frames and methodological challenges: discussing political economy, political ecology, cultural politics and reverse anthropology. The second half of day three will attempt to initiate the group into a simulated research thinking over a specific research design as an outcome of the series of lectures. The concluding Day 4 is devoted to group work restitution, sharing workshop experience and results.

**Workshop 2 Schedule**

<table>
<thead>
<tr>
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<tr>
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<tr>
<td>12:30-14:00</td>
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<td>14:00-18:00</td>
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**DAY 4 – FRIDAY, DECEMBER 8**

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<tr>
<td>11:00-11:15</td>
<td>Coffee/Tea break</td>
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<tr>
<td>11:15-12:30</td>
<td>Group work</td>
</tr>
<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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<tr>
<td>14:00-15:30</td>
<td>Group work</td>
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<tr>
<td>15:30-15:45</td>
<td>Coffee/Tea break</td>
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<tr>
<td>15:45-18:00</td>
<td>Group work restitution of project</td>
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<td></td>
<td>Discussion of the results and the workshops</td>
</tr>
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<td></td>
<td>Valedictory</td>
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**Readings**


**Workshop 2 student profile**

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<tr>
<td>1</td>
<td>Anehi Munda</td>
<td>Ph.D. candidate</td>
<td>Jawaharlal Nehru University</td>
<td>South Asian Studies</td>
<td><a href="mailto:aanehimundra@gmail.com">aanehimundra@gmail.com</a></td>
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<td>2</td>
<td>Braja Kishore Sahoo</td>
<td>Ph.D. candidate</td>
<td>Ravenshaw University</td>
<td>Political Science</td>
<td><a href="mailto:saahoo.bks@gmail.com">saahoo.bks@gmail.com</a></td>
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<td>3</td>
<td>Deepjyoti Nath</td>
<td>Ph.D. candidate</td>
<td>Jawaharlal Nehru University</td>
<td>Social Sciences Demography</td>
<td><a href="mailto:deepjyoti.nath91@gmail.com">deepjyoti.nath91@gmail.com</a></td>
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<td>4</td>
<td>Gokul S</td>
<td>Ph.D. candidate</td>
<td>Pondicherry University</td>
<td>Social Work</td>
<td><a href="mailto:gokulsreekumar17@gmail.com">gokulsreekumar17@gmail.com</a></td>
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<td>5</td>
<td>Mahashewta Chakraborty</td>
<td>Ph.D. candidate</td>
<td>Jawaharlal Nehru University</td>
<td>Geography</td>
<td><a href="mailto:mahashweta.2008@gmail.com">mahashweta.2008@gmail.com</a></td>
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<tr>
<td>6</td>
<td>Mirwais Parsa</td>
<td>Ph.D. candidate</td>
<td>South Asian University</td>
<td>Development Economics Studies</td>
<td><a href="mailto:Mirwais_parsa@yahoo.com">Mirwais_parsa@yahoo.com</a></td>
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<td>7</td>
<td>Monika Sehrawat</td>
<td>Ph.D. candidate</td>
<td>Maharshi Dayanand University</td>
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<td><a href="mailto:monikasehrawat24@gmail.com">monikasehrawat24@gmail.com</a></td>
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<td>Muhammed Rafi</td>
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<td>Jawaharlal Nehru University</td>
<td>Literature</td>
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<td>Rahul Rauny</td>
<td>Ph.D. candidate</td>
<td>Jawaharlal Nehru University</td>
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<td>11</td>
<td>Rashmi Snigdha Rout</td>
<td>Ph.D. candidate</td>
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<td>Anthropology</td>
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<td>12</td>
<td>Sampurna Das</td>
<td>M.Phil.</td>
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<td>13</td>
<td>Saubhagyalaxmi Singh</td>
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<td>Shasana Yomso</td>
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<td>15</td>
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<td>16</td>
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<td>17</td>
<td>Thulasi Kumar</td>
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<td>Mass Communication</td>
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<tr>
<td>18</td>
<td>Vishnu Priya RY</td>
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<td>Social Exclusion &amp; Inclusive Policy</td>
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</tr>
</tbody>
</table>
Workshop 3

Tackling Socio-environmental Issues: Stakes and Potentials of Using Geospatial Technologies

Coordinators:

- Anne Casile
  Archaeologist (IRD, PALOC, Paris; IFP, Pondicherry)

- Rémy Delage
  Geographer (CNRS, CEIAS, Paris)

Invited tutors:

- Stéphanie Duvail
  Geographer (IRD, PALOC, Paris)

- Kumar Akhilesh
  Archaeologist (Sharma Centre for Heritage Education, Chennai)

- Vincent Herbreteau
  Geographer (IRD, ESPACE-DEV, Paris)

- Shanti Pappu
  Archaeologist (Sharma Centre for Heritage Education, Chennai)

- Olivier Telle
  Geographer (CNRS, Géographies-Cités, Paris)

Argument-purpose

Advances in geospatial technologies and geospatial data infrastructures/services, and the development of digital globe browser – such as Google Earth from 2005 onwards – have been major factors in raising awareness and interest toward critical spatial and interdisciplinary thinking in many research fields. In the humanities and social sciences, the integration and spatial analysis of geographically referenced information into scientific conceptual frameworks has gained momentum over the past 10 years with the use of Geographic Information Systems (GIS) – a computer-based technology allowing to handle and analyse spatial data – and satellite imagery freely accessible through the internet.

In recent years, the flow of information from a host of sensors has grown exponentially. Providing with a discovery, descriptive and analytical tool, the incorporation and manipulation of remotely sensed data into a GIS offer great potentials for research to document the human, natural and built system components of the earth, and to explore the complex interfaces and interactions between society and
the environment in relation to a number of issues: resource management strategies and impacts, social vulnerabilities in the face of hydroclimate risks/variability/disasters, water accessibility and sustainability, water depletion, land cover and land use changes, the impacts of human activities on earth, of changing water resources on agro-ecological production systems, settlement dynamics, and so on.

Today GIS and software for image processing, pattern recognition, and scientific visualisation are in widespread use through many disciplines, especially in the environment and health related research domains, and in applied science. Yet, it appears that most students and scholars from social sciences and humanities do not know what GIS is and can do, how it can be used, what types of data can be extracted from and analysed through remotely sensed images.

The objective of this workshop is to focus on the use, potentials and limits of geospatial technologies for research in the social sciences and humanities concerned with issues at the interface between water, society and environment. Highlighted with case studies taken from various disciplines, it will provide a broad introduction to basics and principles of GIS and remote sensing. The workshop is opened to students from all disciplines, who are interested in spatial analysis and willing to implement GIS, spatial technologies and approaches in their research project. The practical work will make use of free software and satellite images.

Workshop 3 schedule

<table>
<thead>
<tr>
<th>DAY 1 – TUESDAY, DECEMBER 5</th>
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</table>
| 9:00-9:30                  | Introduction to and objectives of the workshop  
Presentation of trainers and participants |
| 9:30-11:00                 | Introduction to GIS: basics and principles  
GIS and satellite imagery for research in socioenvironmental sciences (with examples taken in the field of spatial and landscape archaeology) |
| 11:00-11:15                | Coffee/tea break |
| 11:15-12:30                | GIS and satellite imagery for research in archaeology and heritage management: case study  
Between old maps and GIS: case study in geohistory |
| 12:30-14:00                | Lunch |
| 14:00-15:30                | Introduction to remote sensing: basics and principles; issues of temporal and spatial scale  
GIS and remote sensing in health geographical sciences |
| 15:30-15:45                | Coffee/tea break |
| 15:45-17:00                | Potentials and limits of satellite imagery for research in socioenvironmental sciences (with examples) |

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<tr>
<td>9:00-10:30</td>
<td>Introduction to participatory mapping</td>
</tr>
<tr>
<td>10:30-10:45</td>
<td>Coffee/tea break</td>
</tr>
<tr>
<td>10:45-12:30</td>
<td>Acquiring and extracting spatial data on the field using OpenStreetMap and visual photointerpretation</td>
</tr>
<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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### DAY 3 – THURSDAY, DECEMBER 7

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 9:00-11:00 | Introduction to QGIS  
Integrating, generating and analysing spatial data in QGIS         |
| 11:00-11:15 | Coffee/tea break                                                               |
| 11:15-12:30 | Integrating, generating and analysing spatial data in QGIS                      |
| 12:30-14:00 | Lunch                                                                       |
| 14:00-15:30 | Integrating, generating and analysing spatial data in QGIS                      |
| 15:30-15:45 | Coffee/tea break                                                               |
| 15:45-17:00 | Integrating geospatial technologies in research project design  
Group work: project preparation                                     |

### DAY 4 – FRIDAY, DECEMBER 8

<table>
<thead>
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<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:00-11:00</td>
<td>Group work: project preparation</td>
</tr>
<tr>
<td>11:00-11:15</td>
<td>Coffee/tea break</td>
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<tr>
<td>11:15-12:30</td>
<td>Group work: preparation of a project</td>
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<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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<td>14:00-15:30</td>
<td>Group restitution</td>
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<tr>
<td>15:30-15:45</td>
<td>Coffee/tea break</td>
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| 15:45-18:30 | Group work restitution of project  
Discussion of the results and the workshops  
Valedictory                                                              |

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**Readings and online resources**

*References on GIS and remote sensing in socio-environmental sciences*


*Links to tutorials online*

http://www.qgis.org/en/site/about/index.html
http://docs.qgis.org/2.18/en/docs/gentle_gis_introduction/
http://docs.qgis.org/2.18/en/docs/user_manual/
http://docs.qgis.org/2.8/en/docs/training_manual/
https://fossgeo.org/
http://mannlib.cornell.edu/help/research-support/tutorials/gis

*Links to spatial imageries, maps, GIS data source, geoportals*

http://www.netvibes.com/geohealth#Online_databases
https://earthengine.google.com/
https://earthexplorer.usgs.gov/
https://worlddem-database.terrasar.com/
https://landcover.usgs.gov/
https://asterweb.jpl.nasa.gov/gdem.asp
http://www.viewfinderpanoramas.org/dem3.html
http://isric.org/explore
http://www.naturalearthdata.com/
http://www.opentopography.org/
https://hydrosheds.cr.usgs.gov/
### Workshop 3 student profile

<table>
<thead>
<tr>
<th>Name</th>
<th>Level</th>
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<th>Field of research</th>
<th>Email</th>
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<tbody>
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<td>11</td>
<td>Shanmugam Dhanusu</td>
<td>M.A.</td>
<td>University of Madras</td>
<td>Disaster Mitigation And Management</td>
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<td>12</td>
<td>Shivakumar Nayka</td>
<td>Ph.D. candidate</td>
<td>ISEC</td>
<td>GIS and Remote Sensing</td>
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<tr>
<td>13</td>
<td>Sudarsana Kumar</td>
<td>Ph.D. candidate</td>
<td>Pondicherry University</td>
<td>History</td>
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<td>14</td>
<td>Uma Dey Sarkar</td>
<td>Ph.D. candidate</td>
<td>Jawaharlal Nehru University</td>
<td>Geography</td>
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<td>Upul Sanjeewa Wijepala</td>
<td>Ph.D. candidate</td>
<td>Pondicherry University</td>
<td>Sociology</td>
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<td>16</td>
<td>Vignesh Murugesan</td>
<td>Ph.D. candidate</td>
<td>IIT Indore</td>
<td>Coastal Wetland Governance and Development</td>
</tr>
</tbody>
</table>
APPENDICES
Acronyms and abbreviations

CEIAS – Centre for South Asian Studies, Paris

CNRS – French National Scientific Centre

CPR – Centre for Policy Research, New Delhi

CSH – Centre for Social Sciences and Humanities, New Delhi

CSSEIP – Centre for Study of Social Exclusion and Inclusive Policy

DIAL – Research Unit "Development, Institutions and Globalisation" (IRD-Université Paris-Dauphine), Paris

EHESS – Ecole des Hautes Etudes en Sciences Sociales

IFP – French Institute of Pondicherry

IIPS – International Institute for Population Sciences

IIT – Indian Institute of Technology

IRD – French National Research Institute for Sustainable Development

JNU – Jawaharlal Nehru University

MAE – French Ministry of Foreign Affairs

PALOC – Research Unit “Patrimoines Locaux et Gouvernance” (IRD-National Museum of Natural History), Paris

SCHE – Sharma Centre for Heritage Education, Chennai

TISS – Tata Institute of Social Science

UMISARC – (UNESCO) Madanjeet Singh Institute for South Asian Regional Cooperation

UMR – Mixed Research Unit
Bios of experts and coordinators

Kumar Akhilesh (Director of the Sharma Centre for Heritage Education, Chennai) is interested in prehistory, experimental archaeology (reconstructing ancient technology), satellite remote sensing and GIS. He has obtained his Ph.D. from the Deccan College, with a focus on the prehistoric archaeology of Jharkhand. He is currently the co-Director of the research project on the prehistory and palaeoenvironments of Attirampakkam, and is Director of a research project on prehistoric sites in Tamil Nadu. In the frame of an ISRO-GBP project and in collaboration with ISRO (Indian Space Research Organisation) and RRSC (Regional Centre for Remote Sensing, South), he is also involved in a project on applications of satellite remote sensing and GIS in archaeology for the purpose of research and heritage management. He has numerous research papers in peer-reviewed national and international journals to his credit, including Science and has presented his work in conferences in India and abroad.

Rémi de Bercegol is a Research Fellow at the French National Centre for Scientific Research (CNRS). He has a doctorate in Urban Planning from LATTS (research group on technology, territories and societies) at ENPC/UMLV, Paris Est, France. He was a Visiting Researcher at the Centre for Social Sciences and Humanities (CSH) in New Delhi between 2008 and 2012. During this time, he undertook research for his book on small towns and decentralisation reforms in northern India, which has been published in 2017 by Springer in India. Beyond the scope of India, his research now focuses on world urbanisation and the transformation of cities in the global South, analysed principally in terms of their essential services (water, sanitation, waste management and energy).

Anne Casile is a Research Fellow at IRD (French National Research Institute for Sustainable Development), and a member of the Research Unit PALOC (Patrimoines Locaux and Governance, IRD/National Museum of Natural History) in Paris. She has been assigned by the IRD in India, and is an Associate Researcher of the French Institute of Pondicherry (IFP). In the field of spatial and landscape archaeology, her research focuses on water management and the relationship between religion, power, and water control in the making of places and cultural landscapes in Central India. She is currently developing an interdisciplinary project to investigate the impacts of rainfall uncertainty and monsoon anomalies on societal development and vulnerability in medieval times, and the ways people adapted to hydroclimatic variability, insecurity, and extremes in the semi-arid region of Malwa, around Mandu.

Sangeeta Dasgupta is Associate Professor at Centre for Historical Studies, Jawaharlal Nehru University, New Delhi. She works on Adivasi history, environmental history, colonial ethnography, missionary studies and visual representations. She is the author of Reordering Adivasi Worlds: Oraons and Tana Bhagats in Colonial and Postcolonial Times (forthcoming from Oxford University Press) and The Politics of Belonging in India: Becoming Adivasi (along with DJ Rycroft), Routledge, London and New York, 2011. She has published widely in leading scholarly journals like Modern Asian Studies and Studies in History, and was guest editor for a special issue titled ‘Reading the Archive, Reframing Adivasi Histories’, Indian Economic and Social History Review, Vol. 53:1, 2016. She has been Asa Briggs Visiting Fellow at the University of Sussex, United Kingdom; Visiting Fellow at the Fondation Maison des Sciences de l’Homme, France; International Visiting Fellow at Grinnell College, U.S.A; Agatha Harrison Memorial Fellow at St Antony’s College, University of Oxford; Research Fellow of the Charles Wallace India Trust,
SHUBAGHATO DASGUPTA is a senior fellow at CPR and director of the Scaling City Institutions for India (Sci-Fi) Sanitation initiative. His current research focuses on drinking water and sanitation in India and the world, with particular reference to flagship government programs and service delivery challenges in smaller cities. Other major areas of work include urban infrastructure and service delivery financing, housing and slum rehabilitation, urban sector public finance, and urban environmental infrastructure planning, management, and investment, alternatives. Before coming to CPR, Shubhagato led the Support to National Policies for Urban Poverty Reduction project, a collaboration between the UK’s Department for International Development (DFID) and India’s Ministry of Housing and Urban Poverty Alleviation to develop pro-poor urban policies in 20 cities across 15 states. Prior to this, he has also worked on issues of urban development with a wide range of other public, private, multilateral, and non-governmental organizations, including as Senior Urban Specialist at the World Bank, Assistant Vice President at the Infrastructure Development Finance Company (IDFC), the Housing and Urban Development Corporation (HUDCO) and The Action Research Unit.

RÉMY DELAGE is a Research Fellow at the Centre for South Asian Studies (CEIAS - EHESS, Paris) of the Centre National de la Recherche Scientifique (CNRS). His work focuses on the role of religious circulations (processions, pilgrimages, journeys) in structuring places and territorial belonging in India and Pakistan. Dr. Delage published with Dr. Michel Boivin an edited book Devotional Islam in Contemporary South Asia: Shrines, Journeys and Wanderers (Routledge, London, 2016), and recently co-edited with Mathieu Claveyrolas Religion and its Territories in South Asia and Beyond. Traversing, Performing, Overstepping (EHESS Editions, Paris, 2016).

ANJU DWIVEDI is a Social Anthropologist with an experience of over 20 years in Programme Implementation, Coordination, Research, and Capacity Building, Participatory Methodologies (Participatory Research, Participatory Training, Participatory Monitoring, Evaluation and Impact Assessment). She has worked on issues of strengthening local self-governance institutions in India such as Panchayati Raj Institutions and Urban Local Bodies, Water and Sanitation, Education, Gender, Social accountability and Urban Housing and Poverty. She has extensively worked with Civil Society Organisations in India and also worked for five years with the Ministry of Housing and urban Poverty Alleviation (MoHUPA) under DFID supported project on “Support to National Policies on Urban Poverty Reduction” before joining Centre for Policy Research (CPR) in 2015. She is currently working as a Senior Researcher in CPR in Urban Sanitation programme. She is involved in a pilot project demonstrating appropriate and sustainable sanitation service delivery in two cities – Angul and Dhenkanal in Odisha (India) with partner NGO, Practical Action. She has undertaken an ethnographic study on sanitation in small towns in Odisha and on capacity building needs of urban local bodies and the State government on sanitation. Both study reports are currently under publication.

STÉPHANIE DUVAIL is a Research Fellow in the field of geography at the French National Research Institute for Sustainable Development (IRD). Her research deals primarily with water and wetland management in Africa, with a focus on the impacts of large dams on the ecosystems and livelihoods of coastal wetlands and their potential restoration through managed flood releases. She analyses the impact of the changing hydrodynamics on the African deltas and floodplains, with a specific interest on the
natural resource access and sharing, on the associated land tenure and public policy issues, and their modifications in a globalized context. She has experience with multi-disciplinary and participatory research in West Africa (Senegal and Mauritania) and East Africa (Kenya and Tanzania).

**Vincent Herbreteau** is a Research Fellow in the field of health geography at the French National Research Institute for Sustainable Development (IRD) in the UMR 228 ESPACE-DEV Research Unit. His research focuses on the spatial analysis of diseases, from the ecological study of the hosts and vectors of pathogens, the investigation of the exposure of human populations to these vectors and pathogens (social patterns, access to health services, etc.), to an approach of the risk of disease transmission. He is currently responsible of the development of research activities in the field of “health and environment” at SEAS-OI Station in the Indian Ocean. [https://cv.archives-ouvertes.fr/vincent-herbreteau](https://cv.archives-ouvertes.fr/vincent-herbreteau)

**Nathalie Jean-Baptiste** is a Marie Curie Global Fellow currently based at Ardhi University in Tanzania. Her work focuses on the vulnerability of infrastructure systems to climate related risks the relationship between infrastructure, society and the environment in low-income countries. She has extensive international research experience with a focus on infrastructure in Mexico and Australia as well as risk assessment and adaptation in Burkina Faso, Ethiopia and Tanzania. She is the Team Leader of the Climate Change and Environmental Risk Research Group at the Institute of Human Settlements Studies, the Coordinator of the Housing Network of the International Association People-Environment Studies (IAPS) and a Lead Coordinating Author of the chapter on Housing and Informal Settlements of the Second Assessment Report on Climate Change and cities (ARC3-2, Urban Climate Change Research Network, Cambridge Press: 2016)

**Ambarish Karunanith Ambar** is a Senior Researcher Associate at the Scaling City Institutions for India (Sci-Fi) Sanitation initiative at the Centre for Policy Research, New Delhi (India). His current work mainly focuses on technical analysis of alternative solution for improved sanitation in Urban and Rural areas. Prior to joining the Centre for Policy Research, he was heading the technical support unit at Bhubaneswar Municipal Corporation, Odisha (India). As a head of the unit, he was supporting the municipal body in planning and implementation of National and State level Urban Infrastructure Schemes (Smart Cities Mission, AMRUT and Swachh Bharat Mission). He was trained as a Chemical Engineer at Vellore Institute of Technology, Vellore (India) and he obtained his masters in Energy and Environmental Engineering from Linkoping University, Sweden. During his tenure at Linkoping University, he worked as a researcher in Environmental Technology and Management Division of the University. As a graduate researcher, he got involved in system perspective studies of alternate transportation fuel.

**Frédéric Landy** is the Director of the French Institute of Pondicherry. He had been teaching social geography at the University of Paris Ouest-Nanterre, France, since 1992. He is a fellow of the UMR LAVUE laboratory, and an associate fellow of the Centre for South Asian Studies (CEIAS), Paris. He has authored several books and articles on Indian agriculture, rural issues, slum policies. He was the coordinator of a French National Agency for Research (ANR)-supported project entitled ”Urban National Parks in Emerging Countries” (UNPEC, 2012-16) that compared the national parks in Mumbai, Nairobi, Cape Town and Rio de Janeiro. He is now coordinating the Indian case study (in Uttarakhand) of another ANR project entitled “Whose Landscape in Asia?” (AQAPA) focused on the relationships
between minorities, landscape, agriculture and tourism in rural highlands of India, Nepal, China, Laos and Vietnam.

**Chloë Leclère** is a PhD Scholar in Economics at the Ecole Normale Supérieure de Lyon in France. Her doctoral research focuses on sanitation in India and articulates public schemes, household decision making and their interactions with both economic and residential spaces. She is a member of the laboratory - Groupe d’Analyse et Théorie Economique Lyon-Saint Etienne in France. She is also affiliated with the Center for Social Sciences and Humanities (CSH) in New Delhi and to the French research unit « Indian knowledge and world » (USR 3330). Former Junior Teaching Fellow at the ENS de Lyon, she holds a Master’s degree in Economic Analysis and Policies (Paris School of Economics, EHESS) and another Master’s in Social Sciences and Education (ENS of Lyon).

**Raphaël Mathevet** is an ecologist and geographer, director of research at the CNRS and new head of the department of Ecology at IFP, on leave from the Centre d’Ecologie Fonctionnelle et Evolutive in Montpellier (France). He works on the conservation of biodiversity, protected areas and conservation planning tools, adaptive co-management, evaluation of public policies (agro-environmental schemes, Natura 2000, ecological network, protected area management). Working on participatory modeling, he applies simulation tools and role-playing game in interdisciplinary approaches to resolving management conflicts, especially in the context of Mediterranean wetlands and natural resources management. His most recent work focuses on the concept of ecological solidarity, the resilience of social and ecological systems, social representations and mental models, the human dimensions of conservation and human/wildlife conflicts. He is a member of the Protected Areas’ commission of the French IUCN Committee, vice-president of the UNESCO MAB France Committee and a member of the international advisory committee for Biosphere Reserves of the UNESCO Man and Biosphere program. During the last decade he developed an historical and political ecology approach of landscape and social-ecological dynamics, with a focus on science/management or science/policy interfaces at local, regional, national and international levels.

**Thanuja Mummidi** is Assistant Professor in the Centre for Study of Social Exclusion and Inclusive Policy at Pondicherry University, where she has been teaching since 2009. She holds a Ph.D. in Social Anthropology from the University of Madras. Post Ph.D. she was awarded the Urgent Anthropology Fellowship by the Royal Anthropological Institute, U.K. She later collaborated with the Rural Employment and Microfinance (RUME) programme of the French Institute of Pondicherry in researching the impact of income generating activities on women and their empowerment. She also coordinated a project on ‘Forms of Money with the Konda Reddis’ funded by the Institute for Money, Technology and Financial Inclusion, UCI, Irvine. Her specialisation lies at the interface of economic and ecological anthropology, food sovereignty, and issues of rights and development policy of indigenous populations. She started her research on the Konda Reddis, an indigenous population in south India, in early 2000. Her publications are largely with reference to them.

**Christophe Jalil Nordman** is Research Fellow at the French National Research Institute for Sustainable Development (IRD), and is currently assigned to IFP (Pondicherry, India) and DIAL (Paris, France). He holds a PhD in development economics from University of Paris-I Panthéon-Sorbonne. He has an expertise in socio-economic data collection and analysis. His research focuses on the functioning of labour markets in developing countries, including the formation of earnings, skills and social networks,
discrimination, employment and household vulnerabilities, and the labour consequences of migrations. His former regional focus was North and West Africa, Madagascar, Vietnam and Bangladesh, where he has acquired over the years an extensive field experience, set up research networks and conducted numerous research projects. He is currently in charge of a socio-economic data collection project within the Social Sciences Department at IFP focusing on households’ financial practises, labour, skills, social networks and mobilities in rural Tamil Nadu (LAKSMI project).

**FELIX PADEL** is a London-based anthropologist-activist. He has authored several books and articles on tribal and environmental issues, and teaches at Universities in India and abroad, including the Centre for World Environmental History, University of Sussex. Among several positions held in India, he was Professor of Rural Management at the Indian Institute of Health Management Research (2012-14), and Visiting Professor at Jawaharlal Nehru University during 2015-16. He has a degree in Classics from University of Oxford. Later on, he switched to Anthropology, doing an M.Phil in Sociology at the Delhi School of Economics. His D.Phil in Anthropology at University of Oxford is an exercise in ‘reverse anthropology’, analysing the power structures imposed by British rule over a tribal people in Central India, that have endured and intensified post-Independence. His D.Phil became his first book, Sacrificing People: Invasions of a Tribal Landscape (1995/2010). More recent publications include Out of This Earth: East India Adivasis and the Aluminium Cartel (with Samarendra Das, 2010), and Ecology, Economy: Quest for a Socially Informed Connection (with Ajay Dandekar and JeemolUnni, 2013). The former proved an effective tool in supporting activism aimed at stopping the London-based company Vedanta from mining a sacred mountain in Odisha.

**SHANTI PAPPU** (Professor and Founder / Secretary of the Sharma Centre for Heritage Education, Chennai) is interested in prehistory, palaeoenvironments, ethnoarchaeology, history of archaeology and public archaeology (especially for children and teachers). She is a former Professor of Prehistory at the Deccan College Postgraduate & Research Institute. She completed her doctorate from the Deccan College Postgraduate and Research Institute (Pune, 1996), and was subsequently a Homi Bhabha Fellow. She was a Charles Wallace Fellow at the Ancient India and Iran Trust, U.K., and has obtained several awards. She holds a law degree with a dissertation on cultural heritage laws of India and is a registered advocate. She has published two books, with numerous publications in peer-reviewed journals, including Science, as also one book for children on archaeology and several popular articles. She is currently director of the research project on prehistory and palaeoenvironments in Tamil Nadu, including excavations at the site of Attirampakkam.

**JAYAPRAKASH P. RAO** joined Osmania University as a Lecturer in 1975 and retired as Professor in 2011. Soon after joining Osmania University he got an opportunity to work with the renowned anthropologist Führer-Haimendorf in Eastern Ghats between 1978 and 1980. He learned anthropological methodology from the Haimendorfs and contributed to “Tribe of India – Struggle for Survival. Soon he got interested in tribal rights and conservation of forests. In the context of tribal rights he filed cases in AP Highcourt challenging Panchayat elections in 1994 as 73rd ammendment of the Indian constitution was not extended to the Scheduled areas. The High court set aside applicability of AP Panchyat Act to the Scheduled areas. Along with other friends launched a nationwide movement of tribals to implement the recommendations of the Committee of Parliamentarians and experts to extend the 73rd constitutional amendment, which finally resulted in the Parliament passing PESA. In 2005 AP Government proposed to build Polavaram Project on the river Godavari. Once the project is completed
it would displace more than 2 lakhs tribals in AP, Orissa and Chhattisgarh. Intervened legally in the Supreme Court and stalled the project. After retirement advice and guide tribal CBO’s and a few NGO’s on tribal issues.

Ravi Rebbapragada is the Executive Director of Samata, Visakhapatnam. He has more than three decades of engagement with land, tribal rights, law, governance in scheduled areas, forest rights and livelihoods of the tribal population. As Executive Director of Samata he and his team has been successful in winning the Samata vs. State of Andhra Pradesh case in the Supreme Court in 1997. The landmark judgment of the Supreme Court secured the rights of tribal population over land. He has been at the forefront of conducting several workshops, training camps, awareness campaigns, capacity building programs at all three levels-local, state and national level on issues relating to governance in scheduled areas, PESA, the Samata Judgment, Forest Rights Act, livelihood and health concerns of mining communities, illegal mining and rights over natural resources. He is also the Chairperson of Mines, Minerals and People, a national level alliance that has been working on the various issues concerning mining and the community. He has been networking, lobbying, and campaigning at the national level on Mining and tribal issues. He was the member of Steering Committee for the Empowerment of Scheduled Tribes for 12th Five Year Plan. He was also member of National Forest Rights (Joint) Committee of MOEF and MOTA in 2010. For formulating the 10th Five Year Plan, He was member of the Sub-Committee on Tribal Policy. Adding to this he has been part of various studies and made valuable contributions. For his spectacular work for the tribal communities, he has been recognized with various awards. He received the prestigious Godfrey Philip Bravery Award under Social Act of Courage in 2011.

Arkaia Singh is a Fellow at the Centre for Policy Research, New Delhi, where she manages the Scaling City Institutions for India (“Sci-Fi II”) Sanitation initiative at CPR. Her current research focuses on legal frameworks, institutions and governance of sanitation in Indian cities, especially in the case of non-network sanitation. She is also responsible for managing research and interventions relating to manual scavenging and caste issues relating to sanitation work, as well as investigations into the business models of small-scale non-network sanitation service providers. She trained as a lawyer, and has over a decade of experience in development sector consulting and research. Her other areas of interest are urbanisation, land, urban poverty, governance and institutions.

Olivier Telle is a Research Fellow at CNRS currently affiliated with CSH. The general aim of his research is to better understand how socio-spatial dynamics of cities are connected to epidemic diffusion, in India (Delhi), as well as Asia (Vientiane, Bangkok). By integrating human mobility, socio-economic, infra-structural and governance disparities, Olivier aims to reduce disease diffusion within and between cities. He is particularly interested in reconnecting sanitation – in his broad meaning- with urban health. Before being recruited by CNRS, Olivier conducted a 3 years postdoc at Institut Pasteur Paris (Functionnal Genetic of Infectious Diseases).
Institutional partners and funding bodies

Pondicherry University, India
http://www.ponduni.edu.in

French Institute of Pondicherry, India
http://www.ifpindia.org/

French National Research Institute for Sustainable Development, France

Bonjour India
https://www.bonjour-india.in/

Centre National de la Recherche Scientifique, France
http://www.cnrs.fr/
Development, Institutions and Globalization, Paris
http://www.dial.ird.fr/

Centre for South Asian Studies, Paris
http://ceias.ehess.fr/

Patrimoines Locaux et Gouvernance, Paris
http://www.paloc.fr/

Scaling City Institutions For India, New Delhi
http://www.cprindia.org/projects/scaling-city-institutions-india-sanitation

Centre for Study of Social Exclusion and Inclusive Policy, Pondicherry University
http://www.pondiuni.edu.in/department/centre-study-social-exclusion-inclusive-policy
Organisation Committees

Three committees have been formed for the implementation of this event.

Steering Committee

Preparation and monitoring of the event has been handled by the steering committee composed of four experienced researchers in social sciences research and training:

- **Dr. Anne Casile**, IRD, PALOC and IFP
- **Dr. Rémy Delage**, CNRS, CEIAS, associated with the IFP
- **Dr. Thanuja Mummidi**, Centre for Study of Social Exclusion and Inclusive Policy, Pondicherry University
- **Dr. Christophe Jalil Nordman**, IRD, DIAL and IFP

The role of this committee is to ensure a constant information flow and strategic communication among various institutional partners and donors, to prepare funding proposals and to scientifically coordinate the event from its inception until its end and follow up.

Scientific Committee

The scientific committee has been established to suggest and discuss the topic of each edition and the content of the training workshops. It includes the three members of the steering committee, other members from selected institutional partners, including IFP and Pondicherry University.

<table>
<thead>
<tr>
<th>Prof. K. Rajan (Archaeologist)</th>
<th>Prof. Frédéric Landy (Geographer)</th>
</tr>
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<tbody>
<tr>
<td>Department of History</td>
<td>Director</td>
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<tr>
<td>Pondicherry University</td>
<td>French Institute of Pondicherry</td>
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<th>Prof. B.B. Mohanty (Sociologist)</th>
<th>Dr. Audrey Richard (Sociologist)</th>
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<tr>
<td>Department of Sociology</td>
<td>Former Head of Social Sciences Department</td>
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<tr>
<td>Pondicherry University</td>
<td>French Institute of Pondicherry</td>
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<tr>
<th>Prof. A. Chella Perumal (Anthropologist)</th>
<th>Dr. Ines G. Zupanov (Historian)</th>
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<tr>
<td>Department of Anthropology, Pondicherry University</td>
<td>Director</td>
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<td>CNRS-CEIAS/EHESS</td>
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<tr>
<th>Prof. P. Moorthy (Political Scientist)</th>
<th>Dr. Zoe Headley (Anthropologist)</th>
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<tr>
<td>Department of Social Work, Pondicherry University</td>
<td>Research Fellow,</td>
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<td>Associated with the IFP</td>
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<tr>
<td>Dr. R. Nalini (Social Work)</td>
<td>Dr. Rémy Delage (Geographer)</td>
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<tr>
<td>Dr. A. Subramanyam Raju (Political Scientist)</td>
<td>Dr. Christophe Jalil Nordman (Economist)</td>
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<tr>
<td>UMISARC, Pondicherry University</td>
<td>Research Fellow</td>
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<td>IRD, DIAL and IFP</td>
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<tr>
<td>Dr. A. Chidambaram (Social Work)</td>
<td>Dr. Anne Casile (Archaeologist)</td>
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<tr>
<td>Centre for Study of Social Exclusion and Inclusive Policy, Pondicherry University</td>
<td>Research Fellow</td>
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<tr>
<td>Dr. Thanuja Mummidi (Anthropologist)</td>
<td>Dr. Flore Gubert (Economist)</td>
</tr>
<tr>
<td>Centre for Study of Social Exclusion and Inclusive Policy, Pondicherry University</td>
<td>Head of Department of Social Sciences of IRD</td>
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**Organising Committee**

An organising committee composed of faculty, research associates and assistants, students, administrators and engineers from IFP and Pondicherry University monitor the communication, manage the website and handle all the logistical aspects of the event.
Practical information

On arrival

- The registration and payment of fees will happen at 9 am on Monday 4th December, 2017, before the inaugural and plenary sessions.

Lodging

- The experts will be lodged at the Hotel Atithi, 126, S. V. Patel Salai, Near Ajantha Signal, Pondicherry and the students will be housed in Pleasant Inn, 33, Ranga Pillai Street, Next to Nilgiri’s Super Market, Pondicherry.

Timings

<table>
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<tr>
<th>Time</th>
<th>Duration</th>
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<tbody>
<tr>
<td>First session starts</td>
<td>9:00</td>
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<tr>
<td>Lunch</td>
<td>12:30</td>
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<tr>
<td>Last session ends</td>
<td>17:00</td>
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<tr>
<td>Dinner</td>
<td>19:00</td>
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(Except on Thursday, 18:00)

Plenary and training sessions

- The inaugural, plenary sessions on Monday December 4th will be held in the UMISARC Auditorium, Silver Jubilee Campus, Pondicherry University.

- The three workshops from Tuesday December 5th to Thursday December 8th will be held at the IFP house in Pondicherry.

- All students and participants are expected to be punctual. Attendance of the integrality of workshops and plenary sessions is compulsory.

Checking out

- All participants need to check out from the guesthouses and hotel at noon on Saturday December 9th.

Contacts of the local organising team

- Subra Roy Chowdhury: +91 75 98 24 99 07
- Vanitha Bruno: +91 41 32 23 16 13
- Thanuja Mummidi: +91 94 43 49 42 04
- Christophe Jalil Nordman: +91 70 94 38 48 45
- Anne Casile: +91 97 86 27 91 64
Entrance to the University Campus will be through Gate n° 2. You will then reach the Silver Jubilee Campus. At the entrance, the UMISARC (UNESCO - Madanjeet Singh Institute for South Asian Regional Cooperation) is situated on the right side of the campus, as shown on this map.
French Institute of Pondicherry (IFP)
French Institute of Pondicherry (IFP) to Hotel Atithi

French Institute of Pondicherry (IFP) to Pleasant In Hotel