

UNDERSTANDING RISK HAITI

KARIBE CONVENTION CENTER, PÉTION-VILLE

14-18
JUILY 2014











Ministère de L'intérieur et des Collectivites Territoriales

No DCP-755/MAJB/rs/EX: 13-14

Port-au-Prince, le 07 Juillet 2014

Dear Partners,

The Directorate of Civil Protection (DPC), on behalf of the National System of Disaster Risk Management (SNGRD) wishes you a cordial welcome to the first national forum on "Understanding Risk Haiti", organized conjointly by the Haitian government and the World Bank.

Haiti, as everyone knows, is a country that is highly exposed and very vulnerable to natural hazards. Throughout the past decade, there have certainly been substantial improvements in the way the country prepares itself to face hydrometerlogical disasters. In addition, the earthquake of January 12th 2010 has led to increased efforts to raise awareness and reduce the impact of seismic events. Furthermore, it is necessary to admit that we can, and we must improve our knowledge, as well understanding of risk, and the factors that contribute to further risk. With this in mind, we should mark this event coming together. This knowledge remains the key to success in terms of disaster risk reduction. It is with this in mind, that this event is organized.

This forum "Understanding Risk Haiti" is a unique occasion to bring Haitian national and international experts and practitioners around the table, to share knowledge on different experiences and innovative tools in the field of the disaster risk management, in order to increase the resilience of the Haitian community.

Dear partners,

DPC invites you to take full advantage of presentations and discussions that will take place and, turn this opportunity into a real platform for sharing best practices and developing partnerships for risk reduction in Haiti.

The, DPC and SNGRD sincerely thank you, our partners, who have already contributed in one way or another to make this event a reality and expected success. We extend our special thanks to the presenters, national and international experts, who agreed to set aside their activities to exchange knowledge within Haiti. We also thank all our partners, because without them, this forum would not be a success. Finally, our gratitude to GFDRR and the World Bank in provided technical and financial support to support this forum.

All of us here at the DPC, along with the SNGRD, would like to wish you the best in all your efforts and week ahead.

Marie Ala JEAN BAPTISTE

Vision

The Forum Understanding Risk | Haiti 2014 will be an opportunity to bring together Haitian and international experts in disaster risk assessment. URHT will introduce technological innovations, showcase good practices, develop partnerships, and encourage new initiatives to reduce risk in Haiti. URHT also offers an opportunity to engage policy makers to establish an environment that considers disaster risk a factor in the country's development process.

The objectives of the Forum are the following:

- Innovate, inspire and influence;
- Propose faster, effective and cost-effective tools and methodologies to assess risk;
- Help policy makers and communities to better understand and manage the risks they face.

This forum is organized in margin of the Forum Understanding Risk 2014, which took place in London from June 30th to July 4th, which had the theme: Produce Information for Action.

Themes

The Forum has a central theme: Understanding Risk in Haiti: Innovate to prevent. This theme will be divided into three main sub-themes:

- Understanding risk (data analysis through the transmission of knowledge in the cultural Haitian context);
- Integration in the development of the country, with a focus on the land use planning, building construction and the resilience of vulnerable communities;
- The establishment of an institutional and financial environment conducive to taking into account risk.

Innovation is therefore at the heart of the event and will be treated as a cross-cutting theme, while providing an important place to the Haitian culture.

The forum will bring together very diverse actors: the public sector in civil society through the private sector, international cooperation, media and research and training institutions.

For more information, please visit:

https://www.understandrisk.org/URHaiti



MONDAY 14

1pm

Registration

3pm

Opening Ceremony

5pm

"Keynote and Ignite"

7pm

Reception

TUESDAY

8am

Registration

9am - 10:30am

- Perception, Communication and Understanding of Risk in Haiti: The Challenges of Risk Education
- Data-gathering for Risk Modeling
- Identification and Mapping of Risk: Enhancing the Participation of Civil Society and Communities

10:30am - 11am Break

11am - 12:30pm

- Risk Modeling of Natural Hazards
- Generating and Analyzing Geospatial Information: Support Tools for Decision-Making (1)
- Communicating construction: a matter of society and system

12:30pm - 2pm

Lunch and exhibition

2pm - 3:30pm

- Seismotectonics and Seismic risk: A Multidisciplinary Approach to Build Resilience to Seismic Risk
- Generating and Analyzing Geospatial Information: Support Tools for Decision-Making (2)
- MIT / Harvard: Temporary Shelters Study

3:30pm - 4pm

 Gender and Disaster Risk Management

4pm - 5:30pm

 Panel Discussion:
 Reliable scientific data, appropriate decisions and technological leaps

wednesday 16

9am - 10:30am

- Hydro-meteorological services for resilience: connecting research and practice
- Disaster risk management in urban and landuse planning (1)
- Determinants of an insured economy: Financial protection and risk transfer

10:30am - 11am

Break

11am - 12:30pm

- Towards higher quality construction
- Institutional framework for disaster risk management: The challenge of modernizing organizational structures
 - Disaster risk management through urban and land-use planning (2)
- RASOR Project and Haiti

12:30pm

- Round Table

Institutional framework for disaster risk management: The challenge of organizational modernization

Lunch and Exhibition

4pm

Closing Ceremony



THURSDAY 17

9am - 12:30pm

- Risk management concepts for decision makers
- Introduction to mapping of flood and landslide risks
- Training in innovative mapping tools
 - An ecosystem of open-source software and open data for disaster management
 - Training in community mapping and OpenStreetMap (OSM): Collecting and updating data for detailed disaster risk management planning
 - Advanced Training for GeoNode Programmers

12:30pm - 1:30pm

Lunch

1:30pm - 5:30pm

- Hydrometeorology:Tomorrow will be another day
- Paraseismic Construction Training
- OpenStreetMap Training
- Advanced Training for GeoNode Programmers

5:30pm

End of the training day

FRIDAY 18

9am - 12:30pm

- Training in QGIS, HaitiData.org and InaSAFE
- Advanced Training for GeoNode Programmers

12:30pm - 1:30pm

Lunch

1:30pm - 5:30pm

- Training in QGIS, HaitiData.org and InaSAFE
- Advanced Training for GeoNode Programmers

5:30pm

End of the training day

SATURDAY 19

9am - 12:30pm

 Advanced Training for GeoNode Programmers

12:30pm - 1:30pm

Lunch

1:30pm - 5:30pm

 Advanced Training for GeoNode Programmers

5:30pm

End of the training day









MONDAY, JULY 14

Registration 1pm **Opening Ceremony** 3pm SALLE ACAJOU Opening Remarks National Anthem Official Opening Speech Cultural Performance «Les Mots Vulnerables» Performance by singer Mikaben 5pm "Keynote & Ignite Sessions" SALLE ACAJOU Keynote Speaker : Francis Ghesquiere, Manager for the World Bank's Disaster Risk Management Practice Group and Head of GFDRR Secretariat (GFDRR) 7pm Reception

TECHNICAL SESSIONS

8am

Registration

9am

Perception, communication and understanding of risk in Haiti: Challenges of disaster risk education

SALLE GINGER

Session Lead: Laënnec Hurbon, Ph.D. Theology, Sociology, Research Director at the National Centre for Scientific Research (CNRS)

Translating the science and modeling of risk into a politics of disaster risk reduction is only possible through effective communication. This is particularly difficult since risk is by definition uncertain and often abstract. This session explores several efforts in risk communication, and takes a look at the perception of risk today and throughout the history of Haiti.

PRESENTATIONS:

- Risk communication tools developed by NATHAT Jean-Euphèle Milcé, Poet, essayist and novelist
- Evaluating risks and uncertainties in the context of disaster risk management in Haiti

 Alain Gilles, Ph.D., Sociology
- Towards a sociology of risk perception in Haiti: continuities and ruptures from the 19th to the 21st century

Rachelle Doucet, Ph.D. Anthropology

The role of the Ministries of Education and Culture to promote the understanding, assessment and risk reduction

Alvaro Montero, Former General Director of the Costa Rican National Committee of Emergency Risk Management

Data-gathering for risk modeling

Session Lead: Sebastian Ancivil & Presler Jean, International Organization for Migration (IOM)



Risk analysis is based on extensive data characterizing the natural hazards, the populations and assets exposed and their vulnerabilities. Recent technologies enable the capture of data faster and at larger scale than in the past. This session presents some of these technologies and their possible uses to improve understanding and management of disaster risk in Haiti.

PRESENTATIONS:

Use of technological tools for risk identification (using UAV for risk identification)

Sebastian Ancivil & Presler Jean, GIS Specialists in Geographic Information Systems, International Organization for Migration (IOM) Satellite products for disaster risk management - a CEO's Pilot Project

Stuart Frye, Systems Engineer at NASA's Goddard Space Flight Center

Emergency response: SERTIT showcasing 15-years of experience in rapid mapping from satellite imagery and examples in the Caribbean Carlos Uribe, Engineer, SERTIT

Identification and mapping of risk: Enhancing the participation of civil society and communities



Session Leads: OpenStreetMap (OSM) / Haitian Red Cross (HRC)

Mapping community needs in terms of risk and vulnerability should form part of an overall strategy to reduce long-term disaster risk, targeting different levels of decision making (community, national and international), and encouraging «community approaches» that can provide good results through participatory mapping ("crowdsourcing").

PRESENTATIONS:

The experience of youth in Saint-Marc with OpenStreetMap (OSM)

Michel-Ange Compère, Spècialist in Geographic Information System, Community OpenStreetMap of Haiti (COSMHA)

How to identify and map risks using Participatory Disaster Risk Analysis (PDRA)?

David Eustache, Disaster Risk Management Advisor at Tearfund/ World Concern, Brunet Exantus, Engineer and Agronomist, World Concern

- Lessons learned from the Vulnerability and Capacity Assessment (VCA) Process Kepler Coicou, Haitian Red Cross (HRC)
- Support for an integrated management of natural resources and increasing agricultural production:
 A case-study in Northeast Haiti

Axelle Fidelin et Louisly Cogmar, Comité Protos Haiti (CPH)

11am

Risk modeling of natural hazards



Session Lead: Philemon Mondésir, GIS Specialist, National Center for Geospatial Information (CNIGS)

This session will describe some modern approaches to the modeling of natural hazards, necessary for modeling risk. This includes presentations on the analysis of geophysical and hydrometeorological hazards.

PRESENTATIONS:

- Study of large-scale gravitational deformation using a triple geological-geographical-digital approach: An example of Clapière, France Emmanuel Tric, Professor, University of Nice Sophia Antipolis
- Hydraulic modeling, hydro-geomorphology and flood risk

Eric David, Project Director ARTELIA Water & Environnent

Evaluation of landslides from satellite images
Philemon Mondésir, Specialist in Geographic Information
System, National Center for Geospatial Information (CNIGS)

Generating and analyzing geospatial information: Support tools for decision making (1)



Session Lead: Boby Piard, General Director, National Center for Geo-spatial Information (CNIGS)) & Martine Mathieu, Professor at Quisuqueya University

The management, analysis and mapping of spatial data has become a critical tool for urban management. In particular, the risk management in an urban environment is complex, dense and mostly informal, and therefore must be based on a multiplicity of geographical, geological, sociological, demographic, and many other data. Both these sessions showcase efforts of collection, management, analysis, sharing and use of geospatial data for decision-making aimed at increasing the resilience of Haitian communities.

PRESENTATIONS:

- Developing community resilience to disasters

 Louise K. Comfort, Director of the Disaster Risk Management
 Center at Pittsburgh University
- Presentation on HaitiData.org
 National Center for Geo-spatial Information (CNIGS)
- Geovisualization of risk in decision making at the local government level Martine Mathieu, Professor at Ouisqueya University
- Information system resources and vulnerabilities to crisis management and preventive land management Tabarre

Morena Zucchelli, Head of Mission, Cooperazione Interazionale (COOPI)

Communicating construction: a matter of society and system



Session Lead: Ben Noble, Communications Advisor on Crises and Reconstruction at InterNews

Management, analysis and mapping of geospatial data are critical for risk management. Specifically, disaster risk management in a dense urban environment, complex and mainly informal must be based on a multiplicity of geographical, geological, sociological and demographic among others. This session and that of MTPTC aim the efforts of collection, management, analysis, sharing and use of geospatial data for decision making to increase the resilience of the Haitian community.

PRESENTERS:

Ben Noble, Communications Advisor on Crises and reconstruction InterNews

Hubner Louis-Charles, Head of Reconstruction / Urban Planning component and Reconstruction GRET

Moise Joseph, Lead Trainer, International Labour Office (ILO)

Lora Vicariot, Project Manager upgrade Quarter J / P Haitian Relief Organization (J / P HRO)

2pm

Seismotectonics and seismic risk: a multidisciplinary approach to build CATALLEYA resilience to seismic risk



Session Lead: Samira Philip, Technical Advisor at United Nations Development Programme (UNDP)

The entire country of Haiti is exposed to seismic risk. Unfortunately, the lack of detailed information on the geodynamics and earthquake history in Haiti contributes to a misunderstanding of the seismic hazard and the potential impact in Haiti. This session presents some of the scientific advances in earthquake hazard modeling in Haiti.

PRESENTATIONS:

- Contributions of neotectonics and seismotectonics in understanding earthquake risk in Haiti Samira Philip, Technical Advisor at United Nations Development Programme (UNDP)
- Contributions of neotectonics and paleoseismology in understanding seismic risk in Venezuela

Franck Audemard, Geologist, Venezuelan Foundation for Seismological Research (FUNVISIS)

The methodology of seismic micro-zoning and its application in Haiti

Claude Prépetit, Engineer and Geologist, Bureau of Mines and Energy (BME)

Generating and analyzing geospatial information: Decision-making support tools (2)

SALLE ACAJOU

Session Lead : Boby Piard, General Director, National Center for Geospatial Information (CNIGS) & Martine Mathieu, Professor at Quisqueya University

The management, analysis and mapping of spatial data have become a critical tool for urban management. In particular, disaster risk management in an urban environment--complex, dense and mostly informal--must be based on a multiplicity of geographical, geological, sociological, demographic, and many other data. Both these sessions showcase efforts of collection, management, analysis, sharing and use of geospatial data for decision making, aimed at increasing the resilience of Haitian communities.

PRESENTATIONS:

- Rapid analysis and risk mapping
 Andrew Eddy, Project Manager, RASOR
- Data management for decision making
 Dave Hampton, Re:ground LLC
- KAL-Haiti: A database for risk management and sustainable reconstruction in Haiti Arnaud Durand, Satellite Imagery Analyst, SERTIT

Introducing an innovative study on emergency evacuation and temporary shelter systems in Haiti

SALLE GINGER

Session Lead : Miho Mazareeuw, MIT & Pierre Belanger, Harvard University

3:30pm -4pm

Gender and Disaster Risk Management

SALLE GINGER

Session Lead : Asha Kambon, PhD, Specialist in Risk Reduction and Disaster, UN WOMEN

The rarely used tool of a Gender Impact Assessment (GIA) following a disaster can facilitate innovative approaches to manage future social risk, for both men and women. The use of this tool in Grenada following Hurricane Ivan (2004), and the resultaing policy outcomes, will be presented to demonstrate the effectiveness of such a methodology. The outcomes of the GIA in Haiti (2010), and the challenges in meeting the policy recommendations, will also be discussed.

TUESDAY, JULY 15

4pm

Panel Discussion:



Reliable scientific data, appropriate decisions and technological leaps

Moderator: Gotson Pierre, AlterPress

Panel:

- Director of Civil Protection Direction (DPC)
- General Director, CNIGS
- Ministry of Planning and External Cooperation
- National Education
- Dean of a University
- AEC/Caricom

WEDNESDAY, JULY 16

9am

Hydro-meteorological services for resilience: connecting research and practice



Session Leads(s): Co-organized by the World Bank and the World Meteorological Organization (WMO)

Moderator: Gaetano Vivo, Disaster Risk Management Specialist, World Bank

Understanding hydro-meteorological and climate risks is imperative to develop adequate policy responses. An effective capacity to monitor hydro-meteorological and climate parameters and estimatation potential impact of an event is critical to increase Haiti's resilience, enhance its productivity and benefit society at large. This session will highlight some of the global best practices for effective and efficient hydro-meteorological services, with a particular focus on: institutional frameworks, collaboration between researchers and practitioners, and sustainable mechanisms for capacity building.

OPENING REMARKS:

H.E. Thomas Jacques, Minister of Agriculture, Rural Development and Natural Resources

PRESENTERS:

Helliot Amilcar, Coordinator, National Service of Water Resources, Ministry of Agriculture, Natural Resources and Rural Development

Alix Roumagnac, President of Predict Services

Jean Noel de Grace, Head of Meteorological Service World Meterological Organization (WMO)

Adermus Joseph, Ing. Engineer and agronomist, Professor at the Faculty of Agronomy and Veterinary Medicine of the Haiti State University

Disaster risk management in urban and land-use planning (1)

Proper risk management requires risk-informed urban and land-use planning. This session presents several initiatives for disaster risk reduction through urban and land-use planning, showcasing examples at multiple spatial scales (district, city and province).

PRESENTATIONS:

Methodology for integrating risk reduction into urban planning

Samira Philip, Technical Adviser at United Nations Development Programme (UNDP)

- Contribution of hazard mapping for urban and land-use planning in the Department of Hérault Francoise Besset, Geologist at the General Council of Hérault
- Risk Prevention Plan: 16/6 project and the reconstruction of areas at risk UCLBP

Determinants of an insured economy: Financial protection and risk transfer



SALLE

ACAJOU

Session Lead(s) : Alternative Insurance Company (AIC) & Ministry of Economy and Finance (MEF)

This session will focus on the determinants of an insured economy. The legal framework for insurance can create an enabling environment for the insurance sector in Haiti. This will allow us to strengthen the insurance sector to enable it to meet its obligations and strengthen consumer confidence. Geospatial technology can play an important role in financial protection and risk management of portfolios, which can help reduce costs and enable more informed risk assessments.

PRESENTATIONS:

GPS system for rating measure Raoul Turnier, Director of Information Systems, Alternative Insurance Company (AIC)

Challenges and economic benefits of the insurance legislation in Haiti

Raoul Tribié, Representative of MEF

Disaster Risk Financing and Insurance (DRFI) in the Pacific

Samantha Cook, Specialist Financing Disaster Risk and Insurance, World Bank

Understanding the guarantees offered by the CCRIF

Nicholas Grainger, The Caribbean Catastrophe Risk Insurance Facility (CCRIF)

11am

Towards higher quality construction



Session Lead: Viviane St. Dic, Ministry of Public Works, Transportation and Communication (MTPTC)

The predominant cause of casualties and injuries due to earthquakes and hurricanes are associated with the collapse of buildings. This session will present several efforts of the Ministry of Public Works, Transport and Communication to promote sustainable and safe construction to protect life and property in disasters.

PRESENTATIONS:

Legal aspects of the built environment

Yvan Pinchinat, Urban Planner / Architect at Ministry of Building and Construction, Transportation and Communication (MTPTC)

- Strategy to promote quality construction

 Yves-Fritz Joseph, General Director, National Laboratory
 of Building and Construction (LNBTP)
- Sustainable construction: prevention, assessment and strengthening

Fritz Auplan, Engineer at Ministry of Building and Construction, Transportation and Communication (MTPTC)

Documents and procedures for better regulation of school buildings

Lazare Accou, Director of the Directorate of Engineering School (DGS)

Institutional framework for disaster risk management: The challenge of modernizing organizational structures



Session Lead: Rolando Duran Vargas, International Consultant in Disaster Risk Management (DRM)

The governance of disaster risk management is not synonymous with the institutional or legal framework. It is fundamental to develop a vision oriented towards the functions and responsibilities of the public and private sectors at various levels and scales. This vision should guide the adoption of an institutional approach that strengthens governance in terms of defining responsibilities, identifying specific instruments (legislative, technical and financial), and establishing control mechanisms and accountability.

The session will start with two international case studies to present the process of adopting disaster risk management (DRM) policies, and the need and process for establishing institutional frameworks that can be adapted to modern visions of governance that integrate DRM. After the presentations, a general discussion will be held that will focus on the challenges of governance.

PRESENTATIONS:

Towards the emergence of a legal framework for the management of risks and disasters in Haiti: Challenges and progress

Rose Luce Cadot, Disaster Risk Management Specialist, USAID/OFDA

- Formulation of corporate strategies for risk management: Insights from the Caribbean Eleanor Jones, CEO and Principal Counsel to the Environmental Solutions Ltd. Jamaica
- Organizational strengthening of the Commission of Costa Rica for risk prevention and crisis intervention to guide and coordinate

Alvaro Montero, Former Director General of the National Commission for Risk Prevention and Emergency Management, Costa Rica

SALLE

CATALLEYA

Disaster risk management through urban and land-use planning (2)

Proper risk management requires risk-informed urban and land-use planning. This session presents several initiatives for disaster risk reduction through urban and land-use planning, showcasing examples at multiple spatial scales (district, city and province).

PRESENTATIONS:

Risk prevention rhymes with land

Eric David, Director of Water and Environment Project ARTELIA

PRESENTERS:

Christian Wertherman, Professor of Landscape Architecture and Design at the University of Hannover

Adeline Carrier, UN-Habitat

RASOR Project and Haiti

Round Table on the needs of disaster risk practitioners in Haiti



Round Table

Institutional framework for disaster risk management: The challenge of organizational modernization

Moderator: Dr. Yolène Surena, Coordinator at the Project Coordination Unit/Civil Protection Directorate (UCP/DPC-PRGRD)

Journalist : Roberson Alphonse, Journalist, Le Nouvelliste

12:30pm Lunch and Performance

Closing Ceremony

4pm



THURSDAY, JULY 17

9am

Risk management concepts for decision makers

Trainer: Rolando Duran Vargas



Introduction to mapping of flood and landslide risks

LOCAL PNUD

Trainer: United Nations Programme for Development (UNDP)

- Introduction and methodology
- 2. Preparing the practical case of field-based mapping
- 3. Field-based mapping

Site Visit : Jean Baptiste neighborhood

Training in innovative mapping tools



Training Lead: Vivien Deparday and Bishwa Pandev

An ecosystem of open-source software and open data for disaster management

Vivien Deparday, Specialist GRC and geospatial technologies at the World Bank & Bishwa Pandey, Senior Data management Specialist, World Bank

Training in community mapping and OpenStreetMap (OSM): Collecting and updating data for detailed disaster risk management planning

Trainer : COSMHA & IOM (Sebastian Ancivil, Presler Jean, Michel-Ange Compère)

Advanced Training for GeoNode Programmers

Trainer: Jeffrey Johnson, World Bank

12:30pm **Lunch**

Hydrometeorology: Tomorrow will be another day



Trainer : Alix Roumagnac

Paraseismic Construction Training

Trainer: Isidor Philogène & Yves Marckandy (Suiss Cooperation)



THURSDAY, JULY 17

OpenStreetMap Training

Trainer : COSMHA and IOM, Sebastian Ancivil, Presler Jean, Michel-Ange Compère LOCAL CNIGS

Advanced Training for GeoNode Programmers

Trainer: Jeffrey Johnson (World Bank)

LOCAL CNIGS

5:30pm

End of training day

FRIDAY, JULY 18 Training in QGIS, HaitiData.org 9am LOCAL and InaSAFE **CNIGS** Trainer: Vivien Deparday (World Bank) **Advanced Training for GeoNode** LOCAL CNIGS **Programmers** Trainer : Jeffrey Johnson (World Bank) 12:30pm Lunch LOCAL CNIGS Training in QGIS, HaitiData.org and InaSAFE Trainer: Vivien Deparday (World Bank) **Advanced Training for GeoNode** CNIGS **Programmers** Trainer: Jeffrey Johnson (World Bank) 5:30pm End of training day

SATURDAY, JULY 19

9am	Advanced Training for GeoNode Programmers Trainer: Jeffrey Johnson (World Bank)
12:30pm	Lunch
	Advanced Training for GeoNode Programmers Trainer: Jeffrey Johnson (World Bank)
5:30pm	End of training day

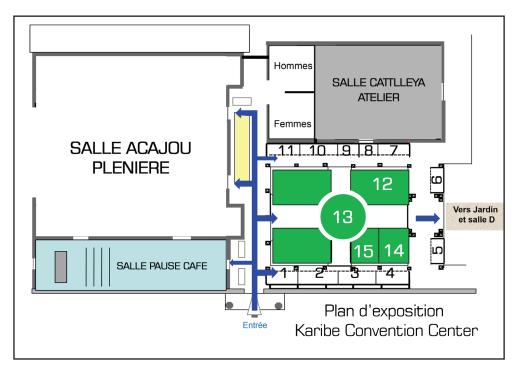
EXHIBITIONS

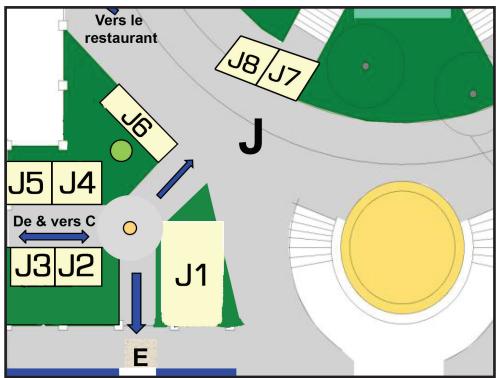
COUR C:

Hackathon : Premium	C1
COOPI	C2
TECHO Haiti	C3
Harvard/MIT	C4
Collège Catts Pressoir	C5
BME/LNBTP/BRGRM	C6
PNUD	C7
World Vision	C8
OIM	C9,C10,C11
DPC	C12
Espace de rencontre	C13
Croix Rouge Haitienne	C14
ARTELIA	C15

JARDIN

UCLBP	J1
ONU FEMMES	J2
Arbeiter-Samartier-Bund (ASB)	J3
Handicap International	J4/J5
OXFAM	J6
UN OCHA	J7
iRED	J8















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