



ISI2017 MARRAKECH

61st ISI WORLD STATISTICS CONGRESS

61ST ISI WORLD STATISTICS CONGRESS

MARRAKECH - MOROCCO

16 - 21 July 2017



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Atlas mountains view



WELCOME MESSAGES

FROM THE HIGH COMMISSIONER FOR PLANNING



Ahmed Lahlimi Alami
High Commissioner for Planning

It is my great pleasure and privilege to invite you to join us for the 61st ISI World Statistics Congress (ISI2017), which will be held in Marrakech from 16 to 21 July 2017.

The ISI2017 will offer participants from all over the world an opportunity for high-level presentations and discussions on the latest developments and advances in different fields of statistics and its applications. Eminent personalities, experts, researchers and students from more than 120 countries will appreciate the fruitful and enjoyable occasions for networking.

The scientific programme of the congress is being developed to offer a rich and stimulating debate focusing on both innovations and challenges facing the international statistical community. In parallel, an exciting social programme is featured to provide participants and accompanying persons the pleasure to explore and spend an enjoyable stay in the historic and magical city of Marrakech.

I'm also delighted and honoured with the awarding, for the first time, of the International Prize in Statistics during the ISI2017 in Marrakech, as recognition of the efforts made for its development.

Marrakech, the pearl of the south also known as the Red City, has developed the art of event making. It hosted important international events among the latest the COP 22 "the Conference of Parties of the UN Framework Convention on Climate Change" in November 2016 with around 30 000 worldwide participants.

I'm confident that your experience at the ISI2017 in Marrakech will be unforgettable. I look forward to welcoming you to Marrakech, Morocco, in 2017.



FROM THE PRESIDENT OF THE INTERNATIONAL STATISTICAL INSTITUTE



Pedro Luis do Nascimento Silva
ISI President

I have the pleasure of inviting you to attend the 61st ISI World Statistics Congress (WSC) that will take place in Marrakech, Morocco, from 16 to 21 July 2017.

The biennial WSC is the flagship event of the International Statistical Institute (ISI) and its seven Associations. It brings together the wonderful community of statisticians and statistics lovers from all over the world. We gather to present, discuss, promote and disseminate research and best practice in every field of Statistics and its applications. We also meet to network and exchange ideas and experiences in a welcoming environment.

In line with the established tradition, ISI2017 will feature a rich scientific programme focusing on the latest knowledge and innovation in Statistics. Besides the classical Invited Paper Sessions, Special Topic Sessions and Contributed Paper Sessions, there will be several additional activities such as Short Courses, Lunch Time Round Table Discussions and Satellite Meetings. The recently launched International Prize in Statistics will be awarded for the first time during ISI2017.

If the attractive and diverse scientific programme is not convincing enough for you to attend, you should consider what you would miss on the social front. ISI2017 will feature a variety of cultural attractions as part of the opening and closing ceremonies, the traditional cultural evening entertainment (Marrakech by Night), and the gala dinner.

On the touristic side, Marrakech, also called the Red City, offers a wide variety of attractions, from historical palaces, tombs, mosques, gardens, and beautiful nature, to endless shopping, dining and entertainment places.

For sure, ISI2017 is not to be missed by anyone interested in or working with Statistics, from academia to industry, from government to the third sector, from the established professionals to the younger generations or the students.

Come and join the fun that is attending an ISI World Statistics Congress.

See you there!



FROM THE DIRECTOR OF THE INTERNATIONAL STATISTICAL INSTITUTE



Ada van Krimpen
ISI Director

I warmly invite you to the ISI World Statistics Congress (WSC) in Marrakech in July 2017.

If this is your first time attending an ISI WSC you will be pleasantly surprised by the wealth of activities. During the 6 days of the Congress, around 300 sessions will offer excellent opportunities to get acquainted with the latest developments in statistics. The participants come from all areas of statistics whether it be academia, business and official statistics, which ensures cross fertilization between disciplines.

As experienced participants know, the ISI WSC is the meeting point for statisticians from all over the world. Participants in the latest WSC in Rio de Janeiro came from over 120 countries and I wouldn't be surprised if this number will be exceeded in Marrakech. The WSC is the place for getting inspired by your colleague statisticians from other countries and continents and to build life lasting friendships.

For the ISI and the Associations, this will be the showcase event where not only the scientific programme is exciting but where we will have all the Executive, Council and General Assembly meetings and where the members of our Associations come together to discuss future directions. The numerous ISI Committees and networks, such as the Young Statisticians, the Committee on Women in Statistics, the Committee on Agricultural Statistics and so forth, will have their meetings and round tables during the week.

The ISI Congresses are well known for the extraordinary combination of an outstanding scientific programme and social events with local flavour that offer excellent networking opportunities. The Local Organisers will offer plenty opportunities for tours and workshops for participants and accompanying persons. The Palais de Congrès, with its '1001 nights' atmosphere, has been completely renovated, and now offers the participants modern and comfortable facilities in a traditional style.

The ISI, Local Organising Committee and our host Haut Commissariat au Plan (HCP) will make sure that the WSC in the majestic city of Marrakech will be an unforgettable experience.

I look forward to meeting you in Marrakech.





قيسارية الأحباس
KISSARIAT AL AHBASS
بيع جميع أنواع الملابس التقليدية
Vente des Vêtements Artisancaux

HIGH COMMISSION FOR PLANNING

ABOUT THE HIGH COMMISSION FOR PLANNING

The High Commission for Planning (HCP) is a ministerial structure that has a status of an administration of mission, under the authority of the High Commissioner for Planning with a ministerial rank. The HCP is independent in establishing its statistical programme (censuses, surveys, national accounts, economic analysis and forecasts, etc.).

The HCP is the main producer of official statistics in Morocco, including the data collection of administrative data produced by the other entities of the National Statistical System, their dissemination and their analysis according to the international principles of fundamental statistics adopted by the United Nations. It also conducts economic, social and demographic studies for various purposes, including the assessment of the impact of public policies and strategies. On the other hand, the HCP elaborates economic forecasts, and conducts prospective studies for a long run horizon. It produces a variety of demographic studies and researches and analysis on poverty and vulnerability with different approaches. The HCP's academic section includes the High School of Information Sciences and the National Institute of Statistics and Applied Economics that completed 56 years of existence this year.

The HCP has the mission of coordinating the National Statistical System, fostering its development through a continuous harmonization of its methodologies with international standards and establishing partnerships in statistics with national, regional and international institutions.

For more information, please visit the HCP website <http://www.hcp.ma/>





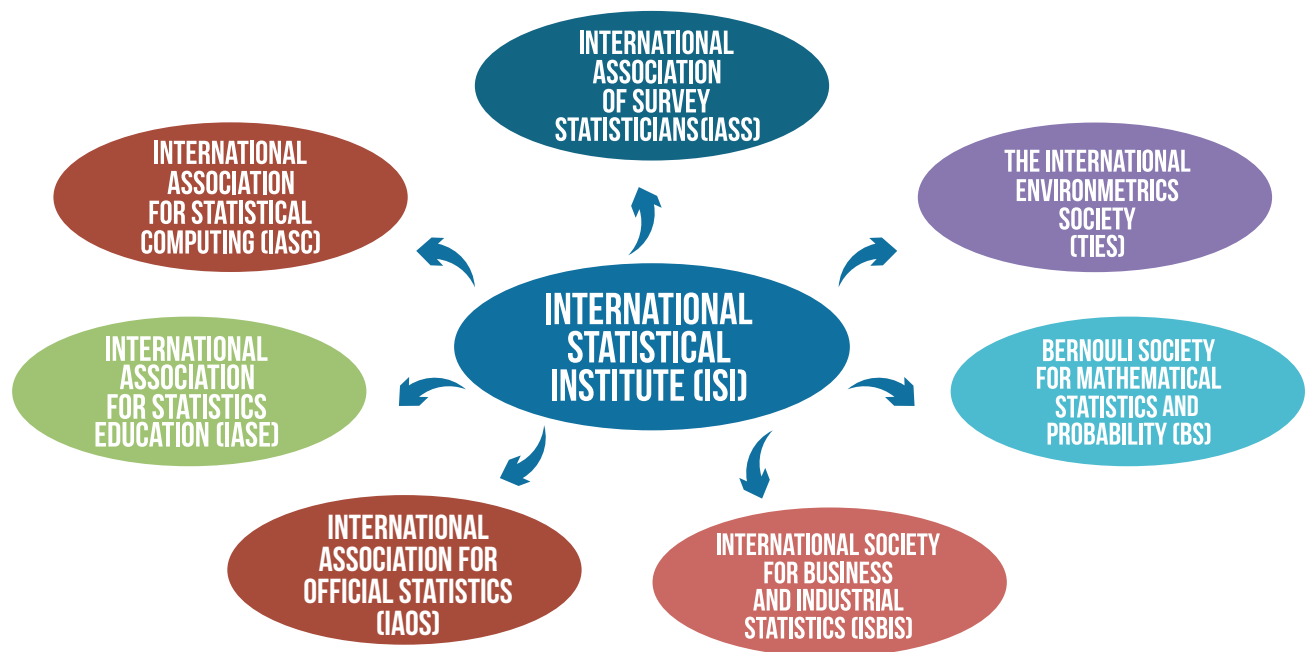
**INTERNATIONAL
STATISTICAL INSTITUTE**

ABOUT THE ISI

The International Statistical Institute, ISI, is a diverse and vibrant organization, with a long history and a rich tradition.

ISI's mission is to promote the understanding, development and good practice of statistics worldwide. This is reflected in the ISI slogan "Statistical Science for a Better World".

The ISI was founded in London in 1885 by 81 prominent statisticians from governments and academia. The ISI, its seven Associations and its organisational members, covering a range of statistical areas and interests, make up the ISI family with over 4500 members from over 100 countries. ISI's work and influence within the international statistical community are supported by standing and operational committees, special interest groups and regional networks.



The ISI is unmatched in its global reach among statisticians and those interested in the field of statistics. ISI also links with many international and national organizations, including National Statistical Societies, with special focus on supporting developing regions of the world. A majority of the world's National Statistical Offices and many central banks are represented within the ISI network of institutional and corporate members.

ISI's Declaration on Professional Ethics provides a framework for statistical professionals to make individual decisions, based on common values and experiences.

Prestigious awards of ISI and its Associations recognize statistical achievements and accomplishments. ISI obtains and administers support for members from developing countries to attend an extensive variety of international conferences and to benefit from its statistical capacity building programme often developed in partnership with other stakeholders, including: workshops to develop skills and leadership; grants to participate in a wide range of international conferences. ISI organises activities to promote a variety of endeavours, including young statistician's careers.

Become part of the ISI family, allow connexion to the worldwide community of statisticians, and help build a better world through Statistical Science.

ISI EXECUTIVE COMMITTEE 2015-2017

The ISI Executive Committee is the leading group within the ISI's organisational structure. The composition of the ISI EC for 2015-2017 is given below. President-Elect Helen MacGillivray will take office as ISI President for 2017-2019 during the closing ceremony for ISI2017.



PRESIDENT

Pedro Luis do Nascimento Silva
(Brazil)



PRESIDENT-ELECT

Helen MacGillivray
(Australia)



VICE-PRESIDENT

A. John Bailer
(USA)



VICE-PRESIDENT

Ivette Gomes
(Portugal)



VICE-PRESIDENT

Irena Krizman
(Slovenia)



VICE-PRESIDENT

Stephen Penneck
(UK)





Moroccan Mosque

ISI COUNCIL MEMBERS

COUNCIL MEMBERS 2013-2017

Grace Bediako
(Ghana)

Alessandro Fasso
(Italy)

Xuming He
(Singapore/USA)

Delia North
(South Africa)

Byeong U. Park
(Republic of Korea)

Fabrizio Ruggeri
(Italy)

Jan Robert Suesser
(France)

Fred Vogel
(USA)

COUNCIL MEMBERS 2015-2019

Misha Belkindas
(USA/Lithuania)

Chun-houh Chen
(Taiwan)

Oliver Chinganya
(Zambia)

Haishan Fu
(China)

Wilfrid Kendall
(UK)

Irena Ograjensek
(Slovenia)

Jean-Michel Poggi
(France)

Paulo Canas Rodrigues
(Brazil/Portugal)

PRESIDENTS OF THE ISI ASSOCIATIONS

Bernoulli Society:
Sara van de Geer
(Switzerland)

IAOS: Ola Awad
(Palestine)

IASC: Patrick J.F. Groenen
(Netherlands)

IASE: Andrej Blejec
(Slovenia)

IASS: Steve Heeringa
(USA)

ISBIS: David Banks
(USA)

TIES: Ron Smith
(UK)

EX OFFICIO MEMBERS

Past President:
Vijay N. Nair
(USA)

**Institutional/Ex Officio
Member:**

Tjark Tjin-A-Tsoi
*(Director-General,
Statistics Netherlands)*

Secretary/Treasurer:
Ada van Krimpen
*(Director,
ISI Permanent Office)*



WORLD STATISTICS CONGRESS

The ISI World Statistics Congresses (WSCs) take place once every two years in different countries and are usually organised in partnership with the host country's National Statistical Office. The WSC is the flagship event of the ISI and its Associations.

It brings together, for an entire week, several thousand participants coming from National Statistical Offices, Academia, Regional and International Organizations, Statistical Associations and from the Private Sector. This event offers great opportunities to discuss emerging developments in statistics, share best practices, explore new ideas and network.

Each WSC has a rich Scientific Programme which is grouped into three types of sessions: Invited Paper Sessions (IPs), Special Topic Sessions (STs) and Contributed Paper Sessions (CPSs).

A full Administrative Programme includes meetings of the Executive Committees, Councils, General Assemblies and Committees of the ISI and the Associations, and special interest meetings relevant to the particular WSC.

The local hosts put considerable effort into the Social Programme to make the WSC an event to remember and to give participants a flavour of the culture of the host country. The Social Programme also includes daytime activities for accompanying persons.

In addition, Satellite Meetings and Short Courses of the ISI and its Associations are usually held before and after the WSC week.

Scientific Programme Committee (SPC) of the 61st ISI WSC

Chair

Fabrizio Ruggeri, Italy fabrizio@mi.imati.cnr.it

Vice-Chair

Chun-Houh Chen, Taiwan cchen@stat.sinica.edu.tw

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Hotel in Marrakech

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Old Medina walls

National Honorary Committee (NHC) of the 61st ISI WSC

Under the Presidency of the Head of the Moroccan Government

The Minister of Interior

The Minister of Economy and Finance

The Minister of Foreign Affairs and Cooperation

The Minister of Communication

The Minister of Higher Education, Scientific Research and Executive Training

The Minister of Tourism

The Bank Al-Maghrib Governor

The High Commissioner For Planning : in charge of the general secretariat



Jemaa El-Fna square



ISI WSC 2017

SCIENTIFIC PROGRAMME

The 61st ISI WSC will take place in Marrakech, Morocco, from 16 to 21 July 2017.

The scientific programme of the 61st WSC is being developed taking into account diverse interests of the International Statistical Community, from research in statistical theory and methodology to its applications in different fields.

INVITED PAPER SESSIONS (IPSs)

The IPSs are developed by the Scientific Programme Committee (SPC) of the ISI and its Associations. An IPS usually consists of 3-4 papers and a discussant invited by the organiser of the session. In addition, several IPS sessions are organised in varying formats and time lengths, to accommodate other types of participation, such as semi-plenary talks and panel discussions, to name a few.

The SPC reviews the proposals, and selects the IPSs to be included in the 61st ISI WSC with due consideration of diversity of topics, the regional distribution of organisers, scientific quality and impact. As of June 2016, the following IPSs are confirmed.

Number	Title	Organisers
IPS006	High-Dimensional Extremes: Models, Inference and Challenges	Raphael Huser
IPS007	Advances in Reliability with Novel Applications	Nalini Ravishanker
IPS008	PEACE, JUSTICE AND STRONG INSTITUTIONS: MEASURING SDG16	Mario Palma
IPS009	Looking for the Holy Grail: measuring income, consumption, and wealth simultaneously at the household level	Sebastian Perez-Duarte
IPS010	High Frequency Financial Time Series, Pattern Recognition, and Volatility	Bovas Abraham
IPS011	Synthetic Datasets for Statistical Disclosure Control ? Research and Applications Around the World	Joerg Drechsler
IPS012	Recent advances of joint models for big data	Hongbin Zhang, Lang Wu
IPS013	Challenges and Lessons Learned: Implementing Changing Methodologies and Technologies in the 2020 Round of World Censuses	Arona Pistiner
IPS014	Recent Developments in Random Graphs	Antar Bandyopadhyay
IPS015	CSDA Journal Session	Jae C Lee, Ericos Kontoghiorghes
IPS016	Recent Advances in Reliability, Repairable Systems, Event-Time Analysis, and Model Selection	Edsel Pena
IPS017	How to Geo-Enable Official Statistics? - the global Statistical Geospatial Framework.	Ekkehard Petri
IPS018	Mission completed? Delivery and deployment of modernisation results in official statistics	Martina Hahn
IPS019	New methods for new data: application of models in official statistics production	Dario Buono
IPS020	Advances in Integration and Reconciliation of Large System of National Accounts Data: Theory and Practice	Baoline Chen, Nino Mushkudiani
IPS021	Enhancing statistical cooperation between national central banks and statistical offices	Bruno Tissot
IPS022	Statistical challenges for African central banks	Bruno Tissot
IPS023	Sentiment surveys for economic policy analysis: evolving uses and methods	Bruno Tissot
IPS024	Official statistics in the age of big data	Bruno Tissot
IPS025	Dimensions of Data Sharing	Bruno Tissot
IPS026	Role of statistics for evidence-based decision making	Bruno Tissot
IPS027	Perfect Simulation	Wilfrid Kendall
IPS028	Robust Statistical Methods for High-dimensional Data with Engineering and Environmental Applications	Ying Sun
IPS029	New methodologies for functional data analysis	Ferraty Frederic
IPS030	Ethics and Big Data	Stephen Penneck



IPS031	What every statistics undergraduate should know about visualizing data	Deborah Nolan
IPS032	Space-Time Statistical Models for High-Dimensional Computer Experiments	Stefano Castruccio
IPS033	Resilience and risks of complex systems	Maurizio Vichi
IPS034	Uni-Multivariate Count Dispersion and Applications	Celestin Kokonendji
IPS035	Statistics Education for Social Engagement	Jim Ridgway, Pedro Campos
IPS036	The Impact of the Hegire Calendar in Time Series Analysis; an international comparison	Dominique Ladiray
IPS037	Optimization and Statistics	Sara van de Geer
IPS038	Causal structural learning	Marloes Maathuis
IPS039	Global, regional, national and thematic monitoring of the SDGs	Tiina Luige, Nicola Massarelli
IPS040	Integrative analysis of complex data - from genomics to bioinformatics	Shili Lin
IPS041	New advances in applied Bayesian Nonparametrics	Raffaele Argiento
IPS042	The agricultural censuses in the 21st Century: Challenges and new opportunities	Naman Keita, Jairo Castano
IPS043	The Future of the Social Sciences and Statistics	Gentry White
IPS044	New developments in sound and cost-effective methods in Agricultural Statistics	Flavio Bolliger
IPS045	Computer-intensive Bayesian methods for analyzing biomedical data: A blissful marriage, or some midlife crisis?	Dipankar Bandyopadhyay
IPS046	Challenges in the Measurement of Human Capital	Andrew Sharpe, Barbara M. Fraumeni
IPS047	International Comparison Program: Challenges and Opportunities	D.S. Prasada Rao
IPS048	Opportunities and Challenges for Teaching Introductory Statistics	Delia North
IPS049	Old and new frontiers in sampling	Li-Chun Zhang
IPS050	Model-based indicators summarising multi-dimensional phenomena: statistical principles and methods to convey consistent policy messages	Maurizio Vichi, Di Ciccio Agostino
IPS051	Recent statistical approaches in hydrology	Fateh Chebana, Sophie Dabo-Niang, Taha Ouarda
IPS052	Use of reporting systems and other administrative data in agricultural statistics	Carola Fabi, Naman Keita
IPS053	Does the production of official statistics need to be a separate branch of government or should it remain within the executive branch of government?	Andreas Georgiou
IPS054	Advances in Analysis of Complex Networks in Environmental Sciences	Yulia Gel
IPS055	Statistical and stochastic modelling of vector-borne infectious diseases	Cigdem AK, Elvan CEYHAN
IPS056	Challenges of Promoting Statistical Literacy in Africa.	Olusanya Olubusoye
IPS057	Small Area Estimation in Developing Countries	Monica Pratesi
IPS058	Modern Statistics Meets Modern Optimization	Roy Welsch
IPS059	Recent advances in Bayesian modelling of spatial and spatio-temporal data	Sujit Sahu
IPS060	Data user in focus - statistics in use	Reija Helenius
IPS061	Recent Developments in Environmental Statistics	Rahmatullah Imon
IPS062	Novel approaches for analyzing high-dimensional time series	Ali Shojaie
IPS063	Methodological issues for estimating special populations, difficult commodities and rare events	Neli Georgieva - Mihaylova, Flavio Bolliger
IPS064	Measuring food access, diet and nutritional status in the Context of the SDGs	Carlo Cafiero
IPS065	Statistics for High Dimensional Data : Theory and Methods	Probal Chaudhuri
IPS066	The renewed/modernised institutional framework of the National Statistical Systems (NSS) in the enlargement and European Neighbourhood Policy (ENP) countries	Claudia Junker
IPS067	Needs and requirements for a future System of National Accounts	Bernd Stoertzbach
IPS068	New challenges to disseminate statistical literacy and problem-solving skills among people by Statistics Bureaus of Governments in "Open Data and Big Data" era	Hiroe Tsubaki, Michiko Watanabe
IPS069	The Symbolic Approach in the Data Science Era	Paula Brito
IPS070	Statistical Modelling and Risk Analysis	Teresa Oliveira
IPS071	Agri-environmental statistics	Elisabetta Carfagna
IPS072	Bayesian models for complex structures	Subhashis Ghoshal
IPS073	Innovative Approaches for Agricultural and Rural Censuses	Barbara Rater
IPS074	Practical and Innovative Approaches Using Master Sampling Frames for Agricultural Surveys	Cristiano Ferraz



IPS075	Using Chain Event Graphs to model and understand discrete processes	Jane Hutton
IPS076	Policy use of macroeconomic indicators	John Verinder
IPS077	Methods for Precision Medicine using Complex Data Modalities	Thaddeus Tarpey
IPS078	Innovative Approaches to Addressing (or Avoiding) Survey Non-Response	Linda Young
IPS079	Global Value Chain measurement and its importance for developing countries	Ronald Jansen, Housain Ouljour
IPS080	Sub-national Purchasing Power Parities (PPPs): Different Methods of Estimation and Application to China, India, Indonesia and Vietnam	Luigi Biggeri
IPS081	Developing Composite Indicators: from academics to practice	Stefan Sperlich
IPS082	Using web scraping for data collection in official statistics ? challenges and opportunities	Bernd Stoertzbach
IPS083	New Approaches for Agricultural Statistics	Michael Steiner
IPS084	Developing Digital Instructional Materials in Probability and Statistics for Elementary/Middle School Prospective Teachers: What Have We Learned?	Christine Browning
IPS085	UN Sustainable Development Goals: The Implications for Statistics at a Sub-National Level	Jagdev Virdee
IPS086	How Statistical Collaboration Laboratories Enhance Statistical Education	Eric Vance
IPS087	Collaborations with Business and Industry Through the LISA 2020 Program	Eric Vance
IPS088	Climate change: methodological issues for measuring impacts and response actions in agriculture	Francesco Tubiello
IPS089	Improvements of the quality of population and housing censuses in the 2020 round	Françoise Dupont
IPS090	Methods for analysis of public use survey data reporting replicate weights	J.N.K. Rao
IPS091	Advances in the Classification of Time Series	Ann Maharaj
IPS092	Do modern statistical institutes need modern legislation?	Gemma Van Halderen
IPS093	Distributional Data Analysis	Rosanna Verde
IPS094	Approaches to promote comparability in household surveys across countries: Results of Recent Testing by International Organizations in follow-up to the 19th International Conference of Labour Statisticians (ICLS)	Elisa Munoz Franco Benes
IPS095	Measurement of decent work, quality of employment and job quality: Comparisons of international frameworks and national experiences.	Monica Castillo
IPS096	The Role of Surveys in a 21st Century Census	James Brown
IPS097	GDP and beyond: recent developments in measuring and analyzing well-being	Albert Braakmann
IPS098	Teaching of economic statistics: past, present, future	Ruslan Motoryn, Alexey Ponomarenko
IPS099	Modernisation of official statistics: how developing and transition countries can benefit of the existing initiatives	Jose Cervera-Ferri
IPS100	Development and Application of International Guidelines for Statistical Business Registers	Michael Colledge
IPS101	Recent Developments in Genetic Association Studies	Malka Gorfine
IPS102	Disability Statistics and Measurement in the Context of the SDGs and the 2020 World Population and Housing Census Programme	Margaret Mbogoni
IPS103	Recent Developments in Copula Models	Louis-Paul Rivest
IPS104	Sexual Harrassment and Gender-Based Violence in Selected Nigerian Universities	Adedayo Adepaju
IPS105	Stein's Method	Gesine Reinert
IPS106	State of the art and advances in modern empirical process theory in welfare analysis	Gane Samb Lo, Richard Emilion
IPS107	Learning and Teaching Statistics Online: A Revolution that Requires Pedagogical Innovation	Hollylynne Lee
IPS108	Keeping Official Statistics Relevant: Adaptive Designs to Reduce Bias and Improve Timeliness	David Marker
IPS109	Recent Advances on stochastic differential equations	Mamadou Diop, Khalil Ezzinbi
IPS110	Computational Methods for Lifetime Data Analysis	Mei-Ling Ting Lee
IPS111	Robust Statistical Methods in Signal and Image Processing	Abdelhak Zoubir, Mounir Ghogho
IPS112	Young researchers' session on Functional Data Analysis	Kristina Lurz, Nihan Acar-Denizli
IPS113	Statistical Developments in Climate Science Research	Lelys Bravo de Guenni



IPS114	Nonparametric methods: Theory and applications	Taoufik Bouezmarni
IPS115	Measuring income and well-being through longitudinal household surveys	Mohammed El Haj Tirari
IPS116	A Comparative Study of Statistical Inference from an Educational Point of View	Manfred Borovcnik
IPS117	Session on non-Euclidean statistics	Stephan Huckemann
IPS118	Advanced studies on long memory time series	Abdou Ka Diongue, Ouagnina Hili, Dahud Kehinde Shangodoyin
IPS119	Models and algorithms for network data	Antonietta Mira
IPS120	Telling statistical stories and teaching good data sense to the public	Albert Bailer, Regina Nuzzo
IPS121	Statistical Analysis of Neuroimaging Data	John Aston
IPS122	DEDA - Digital Economy & Decision Analytics	Wolfgang Haerdle
IPS123	IBS Session: Statistics in the Biosciences	Elizabeth Thompson
IPS124	Selected papers from Stat: The ISI's Journal for the Rapid Dissemination of Statistics Research	Marc Genton
IPS125	ASMBI session	Fabrizio Ruggeri
IPS126	William Sealy Gosset Lecture	David Banks
IPS127	IASC President's Lecture	-
IPS128	Peter Hall Memorial Session	Victor Panaretos
IPS129	Stochastic methods in finance and economics	Mark Podolskij
IPS130	How to improve the acquisition of statistical knowledge in university students? The effects of non-cognitive factors of statistics learning in different educational and cultural contexts	Caterina Primi
IPS131	Quantifying Uncertainty in Large and Complex Data	Lederer Johannes
IPS132	Bernoulli Society Presidential Invited Lecture	Sara Van de Geer
IPS133	IASS Cochran-Hansen Award Lecture	Steven Heeringa
IPS134	IASS President's Invited Lecture	Steven Heeringa
IPS135	Multiple Imputation methods for Survey Nonresponse	Sahar Zangeneh
IPS136	Big Data and Big Opportunities: How the Minds of Statisticians Can Help	Jiming Jiang, Parthasarathi Lahiri
IPS137	Recent Advances in Big Data Inference with Network Structures	Zhao Ren
IPS138	Statistical Modeling of Natural Hazards	Serge Guillas, Jiancang Zhuang
IPS139	Statistical Methods for HIV/AIDS Research	Brett Hanscom, Sahar Zangeneh
IPS140	Accounting for Statistical Dependence in Socio-Economic Data	Noel Cressie
IPS141	Can Agricultural Statistics benefit from Big Data?	Jacques Delincé
IPS142	Big data and visualization: Challenges and opportunities	Paulo Rodrigues
IPS143	Models and Visualization for Exploratory Analysis of Big Data	Genevera Allen
IPS144	Game Theoretic Probability, Learning, and Prediction	Ambuj Tewari
IPS145	Bernoulli Journal Special Invited Session	Holger Dette, Sara van de Geer
IPS146	Bridging BFF (Bayesian/frequentist/fiducial) inferences in the era of data science	Jan Hannig
IPS147	Meta-Analysis Techniques for Big Data Problems	Stephan Morgenthaler
IPS148	IAOS Presidential Lecture	Ola Awad
IPS149	Statistical Journal of IAOS	Fritz Scheuren, Kirsten West
IPS150	TIES Presidential lecture	Ron Smith
IPS151	Environmetrics journal session	Walt Piegorsch
IPS152	International Statistical Review	Ray Chambers, Nalini Ravishanker
IPS153	Session of the Statistics Journal of IASE	
IPS154	IASE Presidential lecture	



SPECIAL TOPIC SESSIONS (STSS)

STSS are an important component of the Scientific Programme of the WSC. Proposals for STSS are submitted by individual members of the ISI and its Associations and Committees or affiliated institutions and organisations. The sessions usually consist of 4-6 papers and possibly a discussant invited by the organiser of the session.

The list of the accepted STSS will be announced by 15th November 2016
on the website : www.isi2017.org



CONTRIBUTED PAPER SESSIONS (CPSs)

Any person planning to attend the ISI WSC may submit a Contributed Paper (CP) for presentation. For the CP proposal to be considered by the Local Programme Committee (LPC), it should include a title, an abstract and a short paper no more than 6 pages long. The paper must not have been published in any other conference proceedings or publication before the 61st ISI WSC. The copyright for the abstracts and papers in the proceedings resides jointly with the authors and the ISI.

Authors are free to publish expanded versions of the material elsewhere after the WSC. Once accepted, the contributed paper will be listed in the scientific programme and presented in one of the following three modes:

(a) Oral Presentation:

The speaker will have 15 minutes to present the paper in one of the Contributed Paper Sessions.

(b) Poster Presentation:

The presenter will have a space to display his/her poster for one day, and should be available at the designated date/time for on-spot discussion.

(c) Poster-Plus Presentation:

The presenter will have a space to display his/her poster for one day, and should be available at the designated date/time for on-spot discussion. In addition, the presenter will have an oral spotlight presentation of 5 minutes on a platform in the same hall of poster-display to advertise his/her poster.



Contributed papers should be proposed by submitting abstracts and papers using the online submission system by 15 February 2017. The submissions will be reviewed by the LPC. The authors who have submitted contributed papers and abstracts will be notified by 31 March 2017 whether the paper is accepted, with the specification of its mode of presentation.

The paper allocation to the different presentation modes and session lengths will take into account both the author's preference and programme optimisation.



SUBMISSION SYSTEM

IPS, STS, and LRTD session proposals, abstracts and papers for all types of sessions, and later all presentation materials must be submitted using the ISI2017 Submission System available at www.isi2017.org. Make sure that you register with this system to enable timely document submission and to enable communication with Congress organisers.

LUNCH ROUND TABLE DISCUSSIONS

In addition to the parallel scientific sessions, participants may propose to organise lunch time round table discussions (LRTD). The idea is to offer to the delegates more opportunities to discuss, share experiences and network in an informal environment. A call for submission of LRTD sessions will be issued later this year.

SHORT COURSES

Short courses will be organised by the ISI and its Associations with the support of the HCP in Marrakech during the three days preceding the ISI WSC 2017.

The short courses programme of the ISI2017 is being developed to serve the diverse needs of participants in terms of capacity building.

In order to recover the costs of scheduled short courses, participants to the conference have to pay a fee for attendance. All Congress delegates are welcome to participate and register in such courses.

For more information, please visit the WSC website:

www.isi2017.org/index.php/isi2017/scientific-programme/short-courses



SATELLITE MEETINGS

Satellite meetings will be organised by the ISI and its Associations before and after the 61st ISI WSC. They could be held in Morocco or even in close countries.

As soon as it will be available, the information about these satellite meetings will be posted on the WSC website: www.isi2017.org/index.php/isi2017/scientific-programme/satellite-meetings.



INTERNATIONAL PRIZE IN STATISTICS

The International Prize in Statistics was created in 2016 by five international statistical societies: American Statistical Association (ASA), International Biometric Society (IBS), International Statistical Institute (ISI), Institute of Mathematical Statistics (IMS), Royal Statistical Society (RSS).

The International Prize in Statistics will be awarded for the first time at the ISI World Statistics Congress in Marrakech in July 2017.



CONGRESS DETAILS

CONFERENCE SCHEDULE

Time	Sunday 16 July	Monday 17 July	Tuesday 18 July	Wednesday 19 July	Thursday 20 July	Friday 21 July
07:30 - 09:00		Administrative Meetings				
09:00 - 10:10	Registration (09:00-16:30) "Special Event" Organized by ISI (09:30-12 :30)	Scientific Sessions (1)				
10:10 - 10:30		Comfort break				
10:30 - 12:30		Scientific Sessions (2)				
12:30 - 14:00		Lunch - Administrative Meetings - Lunchtime Roundtable Discussions				
14:00 - 15:40		Scientific Sessions (3)				
15:40 - 16:00		Comfort break				
16:00 - 17:40	Opening Ceremony Cultural Attraction	Scientific Sessions (4)			President's Invited Keynote Lecture (16:00 - 17:10)	ISI & Associations Awards Ceremony (16:00 - 16:45)
17:45 - 19:00	Welcome Cocktail Reception				General Assembly (17:15 - 19:15)	Closing Ceremony (16:45 - 17:30)
19:00 - 00:00			Marakech by Night (19:00 - 00:00)			Gala Dinner (20:30 - 23:30)

ACCOMMODATION - TRANSPORTATION

PALAIS DES CONGRÈS

Destination	Name	Distance	Time
Marrakech Airport	Menara	3 km	25 min by walk
City Center	« New » MEDINA	1 km	10 min by walk
Downtown	« Old » MEDINA	3 km	25 min by walk
Transport	Railway station	1 km	10 min by walk
Transport	Bus station	1 km	10 min by walk
Place of worship	Mosque	1 km	10 min by walk
Place of worship	Church	1 km	10 min by walk
Place of worship	Synagogue	2 km	15 min by walk
The Hike	Ouirgane	60 km	1 h by car
The Hike	Ourika Valley	30 km	30 min by car



REGISTRATION FEES

Type of participant	Group of countries	Registration fees (€)		
		Early Bird (Up to 19 April)	Regular (Up to 07 July)	On site (From 16 July)
ISI members and ISI Association members	Host and least developed	260	320	400
	Developing	280	350	430
	Developed	380	470	550
Other participants (professionals)	Host and least developed	320	400	500
	Developing	360	450	530
	Developed	460	570	650
Students	Any	100	125	150
Accompanying persons	Any	100	125	150

SPONSORSHIP

ISI2017 is a great opportunity for sponsors, partners and supporters to promote their products and image.

It brings together eminent statisticians and members from the international statistical community and has a highly sought audience involved in statistics worldwide.

The Congress will provide insights into both new statistical developments from all over the world, as well as new technologies.

The entire value chain of statisticians and data users will be represented and on show. Our sponsors will benefit from a direct connection with this highly sought after audience via a selection of social, educational and business networking opportunities.

Through ISI2017, sponsors will achieve longevity of their image, clear delivery of their message and formation of new business relationships.

The Sponsorship & Exhibition Prospectus will be available soon.

For more information please contact: sponsorship@isi2017.org



EXHIBITION

An exhibition, covering a variety of products and services related to the statistics profession will be held in conjunction with the 61st ISI WSC.

Providing exhibitors the chance to interact with their target customers, all exhibitors will be listed on the website and Information Bulletin of the 61st ISI WSC.

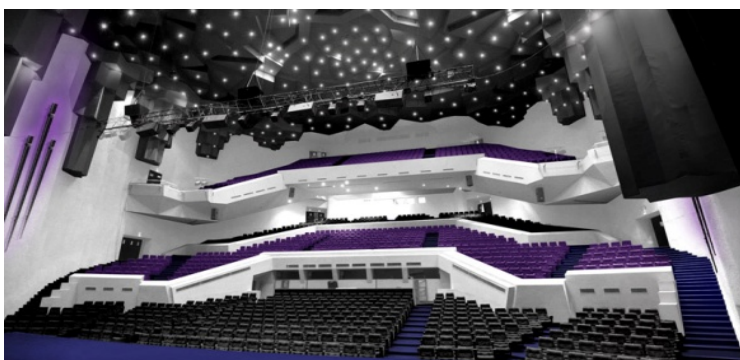
The exhibition will take place in “salle Royale” of the Palais des Congrès.

To reserve your exhibition booth(s), please contact the Exhibition and Sponsorship Manager of the 61st ISI WSC by mail: exhibition@isi2017.org

THE VENUE: PALAIS DES CONGRÈS EL MANSOUR EDDAHBI

LOCATION:

- In the city center of Marrakech
- Less than 15 min drive from the airport
- Less than 10 min walk to railway station
- Less than 10 min to the old Medina with its famous place Jemaa El-Fna
- Less than 10 min to the national company of intercity coaches
- More than 5000 beds available in hotels of various categories within 1 km radius.



SOCIAL PROGRAMME AND TOURS

A delightful and exciting social programme is planned, offering great opportunities for all delegates to network and to be inspired by Moroccan culture. The programme includes cultural tours and social circuits.

CULTURE AND HERITAGE:

- Monuments;
- Museums;
- Palace and doors;
- Parks and gardens;
- Culinary capital and Moroccan Cuisine workshop;
- Henna;
- The art of zellige workshop (mosaic).

SOCIAL AND NATURE TOURS:

- Cooperatives of cosmetics and food products based on Argan oil and local products;
- Companies of BIO-products;
- Green City of Ben Guerir (University Mohammed VI);
- Craft commercial areas;
- SOS Children Village: Association and Alliance Marrakech.

GALA DINNER

Date: 21 July 2017

Venue: "Chez ALI"



Chez Ali is the place of 1001 nights. After a warm welcome typical of Moroccan hospitality, you are invited to visit the museum of Arts & Moroccan Traditions. Then, "Chez Ali" offers guests a sumptuous dinner and a memorable show in berber tents. Belly dancers, acrobats, riders, fireworks, folk music, art on the menu... An enchanting wonderland.



ENTERTAINMENT AND SHOW:

Acrobats, equestrians, fireworks, traditional music and dancing & a dance party with a DJ and a live band.





Berber show



MARRAKECH

ABOUT MARRAKECH

Situated in the south of Morocco, Marrakech counted 928 850 inhabitants in the latest Census.

It is the fourth largest city in the country after Casablanca, Rabat and Fes and it is one of the most important of Morocco's four former imperial cities.

Marrakech comprises sumptuous palaces with multicolored souks, the famous Jemaa El Fna Square and the Menara Gardens, the mosques and the Medersas, the Medina (the downtown) and the New Town.

Marrakech is both authentic, mythical, mystical and magical.

Marrakech, the "Pearl of the South", is one of the destinations that surpasses your dreams. It is the city of legends, the tourist capital, the inspiration of artists, and the city of fashion and events.



Old Medina



At the foot of the High Atlas, Marrakech enjoys a strategic location and a site with exceptional beauty: the highest mountainous barrier in North Africa, with the gates of the desert in the south and the Atlantic Ocean in the west.

The High Atlas, which stretches 700 km, offers a succession of peaks that reach 4 000 meters. The persistent snow all winter may appear as low as 600 meters.

Beyond the 130,000 hectares of greenery and the 180,000 palm trees of its Palm grove, Marrakech is an oasis of great botanical wealth.



Crafts shop



CITY ATTRACTIONS

JEMAA EL-FNA SQUARE

‘Jemaa El-Fna’ is a very famous public square in the southwest of the medina (historic old town) of Marrakech.



This traditional landmark, popular and lively, attracts over a million visitors a year and ‘the cultural space of Jemaa El-Fna’ is registered by UNESCO in 2001 as a Masterpiece of the Oral and Intangible Heritage of Humanity.

MAJORELLE GARDEN

Located in the heart of Marrakech, the Majorelle Garden is one of the major spots in Marrakech. It was founded in 1947 by Jacques Majorelle, a painter living in Morocco since 1919, and purchased after his death by Pierre Bergé and Yves Saint Laurent.



Today, the garden exhibits plants from five continents: Bamboos, palms, cactus, flower pots and water plants.

Majorelle Garden is a timeless space, thanks to the soothing plants and the French-Moroccan architecture, reflecting the historical marriage of two cultures and the mixture of blue and purple, the color Majorelle.



BAHIA PALACE



The Bahia Palace is a big old house and a set of houses that were collected and converted into a palace in the late nineteenth century by the Moroccan architect El Mekki on behalf of the Grand Vizier Ba Ahmed ben Moussa said Hmad (1841-1900).

EL BADI PALACE



The El Badi Palace was built between 1578 and 1603 by Sultan Ahmed Al Mansour saadien Dhahbi. At the time, it was considered one of the most majestic palaces throughout Morocco. Its name means the palace of the incomparable. Today, there remains a large courtyard planted with olive and orange trees, surrounded by gardens.

THE SAADIAN TOMBS

The Saadian Tombs date back to the sixteenth century.

In the eighteenth century, to erase the last traces of the Saadian dynasty, who ruled between 1524 and 1659, these tombs were completely walled up and forgotten until 1917.



MARRAKECH MUSEUM

At the time of the rulers the Pasha of Marrakech, the Museum of Marrakech, was the first school for girls in the red city.

Abandoned for many years, it was then restored years later by Omar Benjelloun.

This passion for art and restoration makes this museum a cultural hotspot, marked by its traditional architecture dating from the nineteenth century.



Now, the museum organizes exhibitions on two main themes: cultural heritage and contemporary art.

KOUTOUBIA



Koutoubia Mosque, whose construction began in 1120 under the Berber dynasty of the Almoravids, was renovated between 1995 and 1998.

It is considered one of the finest monuments of the city and like all mosques, it is reserved for Muslims.

Its minaret of 77 meters high, was completed in 1196 with rich ornaments, interlaced and ceramic green and white differs on all four sides. It is topped with a lantern and three balls of copper, the first and largest, is 6 meters in diameter.



MENARA

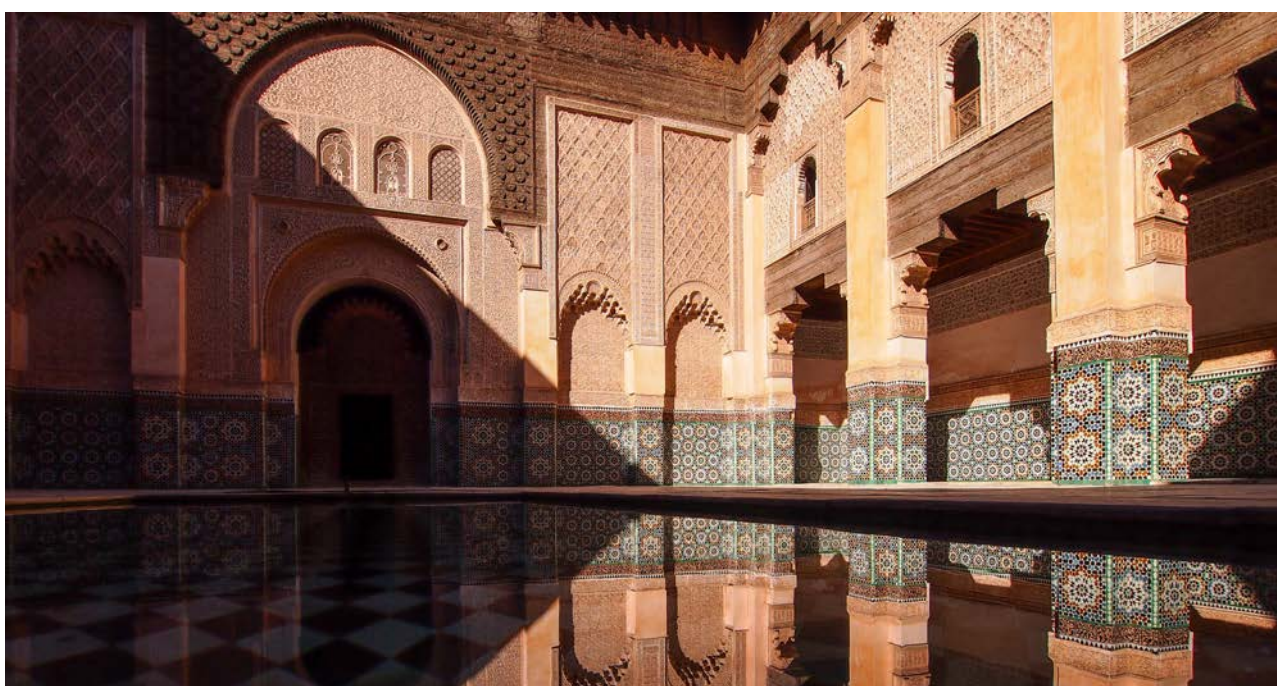
The Menara is a heritage monument of the city, but above all a symbol representing the grandeur experienced by Marrakech.

Built following the orders of the Caliph of the Almohads in 1147, it was basically a pool of 200 by 150 meters, used to store water during droughts.

In 1869, the pavilion was built and gardens planted with olive trees.



MADRASA BEN-YOUSSEF



The Madrasa Ben Youssef is a former Koranic school where hundreds of students from all over Morocco studied the sciences, and especially theology. It is long regarded as the most prestigious of the Arab world.

This madrasa, built in 1570 at the insistence of the Saadian Sultan Abdallah al-Ghalib, consists of a central courtyard and its marble basin and 132 rooms, all decorated with wood cedar, stucco and mosaics.

After its renovation in 1982, the building has regained its former glory.



MEDINA

The Marrakech Medina is the historic heart of the city of Marrakech. Spanning a total area of 600 hectares, it is one of the largest medinas in Morocco and the most populated of North Africa.



Its refinement and urban specificity are the direct result of the total virginity of the land on which it was built in the eleventh century.

Built around a military camp, the Qasr El Hajar, and a market, it was increased by a kasbah in the twelfth century to protect the repeated assaults of the Berber tribes of the plain of Haouz.

The Medina is listed as a UNESCO World Heritage Site since 1985.



SHOPPING

Marrakech is a paradise for shopping addicts.

Leather bags, rubber jewellery, carpets, kaftans and crafts are beautifully laid out in the souks and boutique shops to tempt you to reach for your stash of dirhams. It's the ultimate place for blowing the budget.

Marrakech's best shops are found across the Medina and in the "Ville Nouvelle", as well as in the tight knot of souks that wind through the Medina. Try the less congested Bab Es Salam market in the Jewish quarter for soaps and spices, and Rahal Herbes in the spice market for magic know-how.

Marrakech is also very well known through its different aspects ranging from its deep authenticity to its openness to the modern world.

There is a wide range of shopping malls in the other city, the most popular are:



ALMAZAR SHOPPING MALL

Route de l'ourika
Marrakech



CARRÉ EDEN

23 Rue Tariq Bnou Ziad
Marrakech



MENARA MALL

Avenue Mohammed VI
Marrakech



NIGHT LIFE

Marrakech seems to be living two lives, both as a playground for international jet-setters and a place where tradition still runs deep.

Those seeking a taste of old Morocco should spend at least 1 night at Jemaa el Fna. Arrive before evening to watch the sunset, followed by an array of musicians, storytellers, and dancers. After you have sampled the square, stroll along the adjoining rue Prince Moulay Rachid, or take a seat on Abd el Moumen Square (in front of the Koutoubia Mosque) and end the night with some prime people-watching.

Culture seekers should coincide their visit to the city with one of Marrakech's festivals, while those who prefer a night of dancing and drinks will find everything from lounges to what claims to be the biggest club in Africa.



VENUE DETAILS

Rock 'N' Kech

Rue Fatima Zohra, Medina - Marrakech
+212 6 43 22 14 70

Blokk

Route des Jardins de la Palmeraie
Marrakech
+212 6 74 33 43 34



Bô & Zin

Route de l' Ourika km 3,5 - Marrakech
+212 5 24 38 80 12

Café Lobo

Avenue Moulay Hassan I - Marrakech
+212 6 05 04 12 52



Lotus

Rue Ahmed Chaouqi - Marrakech
+212 5 24 42 17 36

So Night lounge

Rue Haroun Errachid - Marrakech
+212 5 24 42 56 02



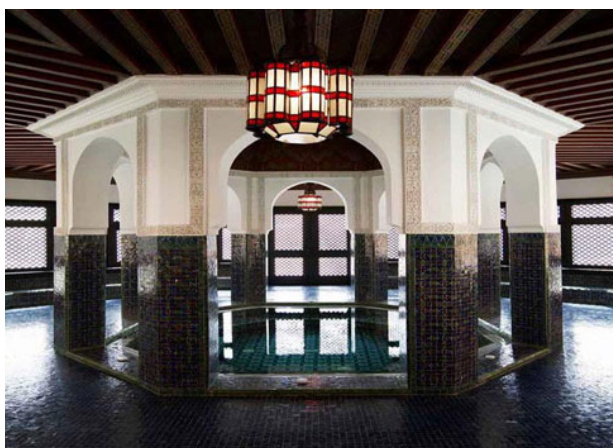
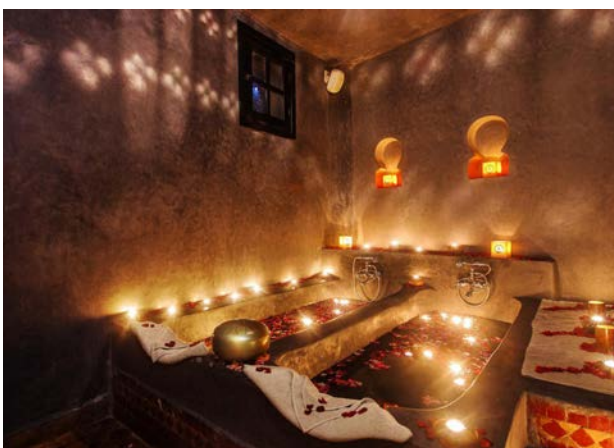
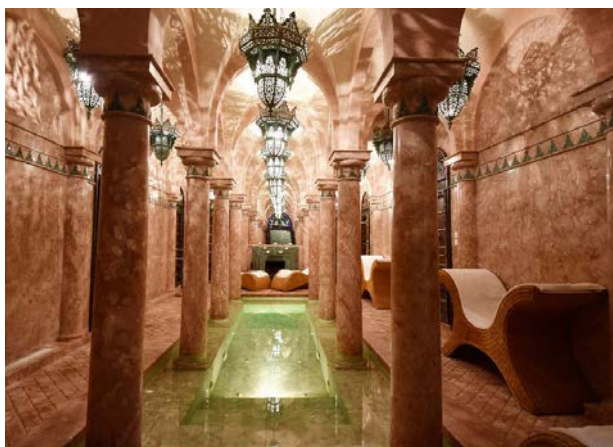
WELL-BEING

After shopping in the souks and Marrakech boutiques, the hammams and spas of the Red City beckon.

Submitting to a hammam in Marrakech's best spas is de rigueur in the Red City.

For luxury pampering, head for the subterranean spa at La Mamounia or the hushed surrounds of the sublime sanctuary at the Selman.

The hammams and massages at Les Bains de Marrakech and Hammam de la Rose will ensure the Medina madness is kneaded out of your shop-weary limbs.







USEFUL INFORMATION

1 - VISA REQUIREMENTS

Please note that citizens from the following countries do not need a visa to enter the Kingdom of Morocco and may stay up to 90 days.

Algeria	Finland	Luxemburg	Saudi Arabia
Andorra	France	Mali	Senegal
Argentina	Germany	Malta	Singapore
Australia	Greece	Mexico	(Singaporean nationals may stay up to one month without visa)
Austria	Guinea (Conakry)	Monaco	Slovakia
Bahrain	Hong Kong	Netherlands	Slovenia
Belgium	Hungary	New Zealand	South Korea
Brazil	Iceland	Niger	Spain
Bulgaria	Indonesia	Norway	Sweden
Canada	Ireland	Oman	Switzerland
Chile	Italy	Peru	Tunisia
Republic of Congo	Ivory Coast	Philippines	Turkey
Croatia	Japan	Poland	United Arab Emirates
Cyprus	Kuwait	Portugal	United Kingdom
Czech Republic	Latvia	Puerto Rico	United States of America
Denmark	Liechtenstein	Qatar	Venezuela
Estonia	Lithuania	Romania	

Visitors intending to stay in Morocco longer than 90 days, however, should request permission to extend the duration of their stay, at the nearest Police Precinct to their place of residence in Morocco.

Citizens from countries not listed above do need a visa and the requirements are available via these links:

For more info visit: www.consulat.ma
To check the consular representation addresses visit:
(<http://www.consulat.ma/an/consulats.cfm>)

2 - TIME ZONE

Moroccan summer time is GMT+1.

3 - CLIMATE

A hot semi-arid climate predominates at Marrakech, with mild damp winters and hot dry summers. July is very hot in Marrakech, average temperatures are 32–45°C (90–113 °F). Light clothing is recommended.

4 - CURRENCY

The Moroccan Dirham (MAD) is the currency of Morocco.

To exchange your currency for MAD, go to an exchange bureau or bank authorized to do foreign exchange.

To check the value of the MAD against other currencies, check the website of Bank Al Maghrib (www.bkam.ma).



5 - LANGUAGE

Morocco has two official languages: Arabic and Amazigh and everyday conversation is in the local languages (Darija, Tamazighte, Tachalhiyte, Tariffiyte et Hassani). French, English and Spanish are also common languages spoken in touristic cities such as Marrakech, Fes, Casablanca and Tangier.

6-TELEPHONE COMMUNICATIONS

Morocco's area code is +212.

The area code for Marrakech is +212 (24).

Pay Phones

To use public telephones, you need to buy a phone SIM. All SIM cards allow you to make local and international calls.

Mobiles/cellulars

To use your mobile phone, check whether your carrier offers roaming services in Morocco. Otherwise, you can buy pre-paid SIM cards, if you have an unlocked phone. Three carriers are operating in Morocco: IAM, MEDITEL and INWI.

7- EMERGENCIES

- **Police:** 19
- **Tourist Police:** +212 5 24 38 46 01
- **Fire Dept.:** 15
- **Gendarmerie:** 077
- **Road Safety:** 177

8 - ELECTRICITY AND POWER OUTLETS

There is just the 220 voltage in Morocco.

It is recommended to check the voltage in each device before plugging it into an outlet.

MODEL OF OUTLETS AND APPLIANCES USED IN MOROCCO



The outlets and appliances used in Morocco are with two round pins.



The American standard is not available in Morocco. In this case, the adapter is needed.



CONTACT INFORMATION

Contact us by email:
contact@isi2017.org



Hotel in Marrakech



ISI2017 MARRAKECH

61st ISI WORLD STATISTICS CONGRESS

Welcome to Marrakech
Welcome to 61st ISI WSC

www.isi2017.org

المملكة المغربية
KINGDOM OF MOROCCO



المنذرية السامية للتخطيط
THE HIGH COMMISSION FOR PLANNING

