

WELCOME

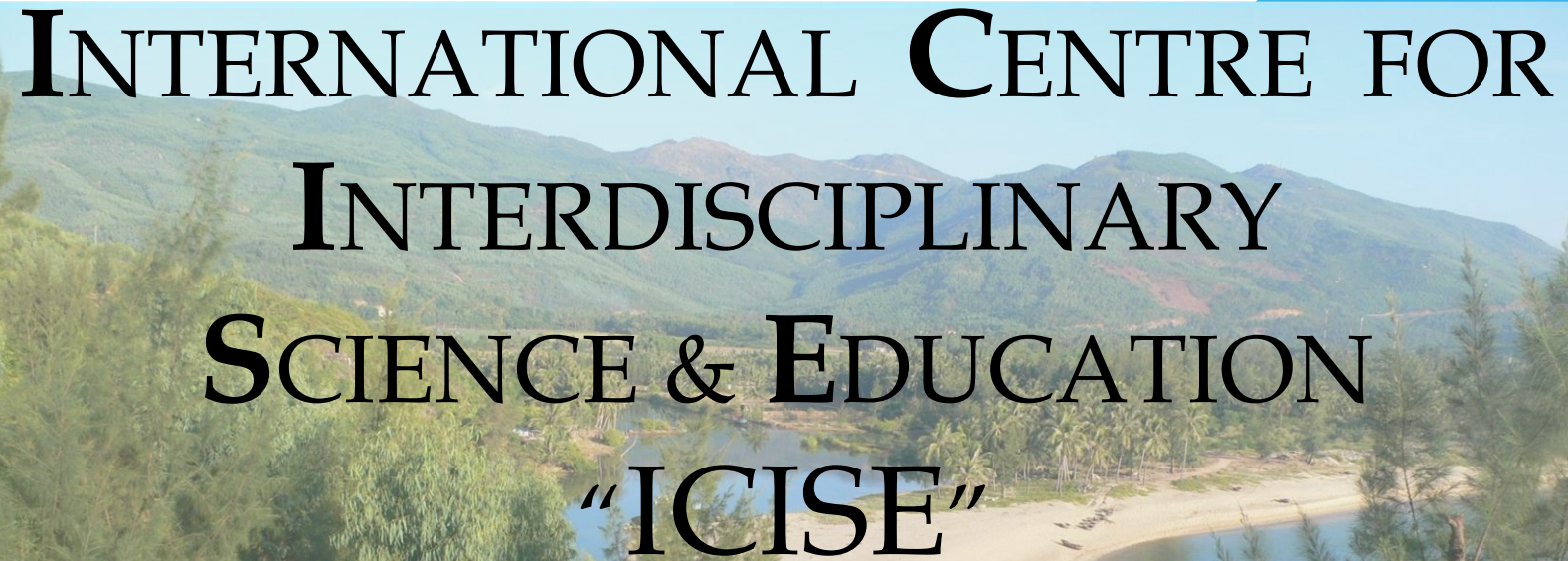
Thank you for taking time to come to this meeting

I am happy to present what a group of Moriond friends have done in Vietnam and share with you the project of the creation of the

**International Centre for Interdisciplinary
Science & Education**

in Quy Nhon, Vietnam

**This project has been designed by a group of Moriond friends
fifteen years ago when we started together the Rencontres du
Vietnam**



INTERNATIONAL CENTRE FOR INTERDISCIPLINARY SCIENCE & EDUCATION “ICISE”

CENTRE INTERNATIONAL DE RENCONTRES SCIENTIFIQUES
INTERDISCIPLINAIRES
QUY NHON – VIETNAM

“The grandeur of human actions is measured by the inspiration that gives them birth”

«La grandeur des actions humaines se mesure à l'inspiration qui les fait naître.»

Louis Pasteur

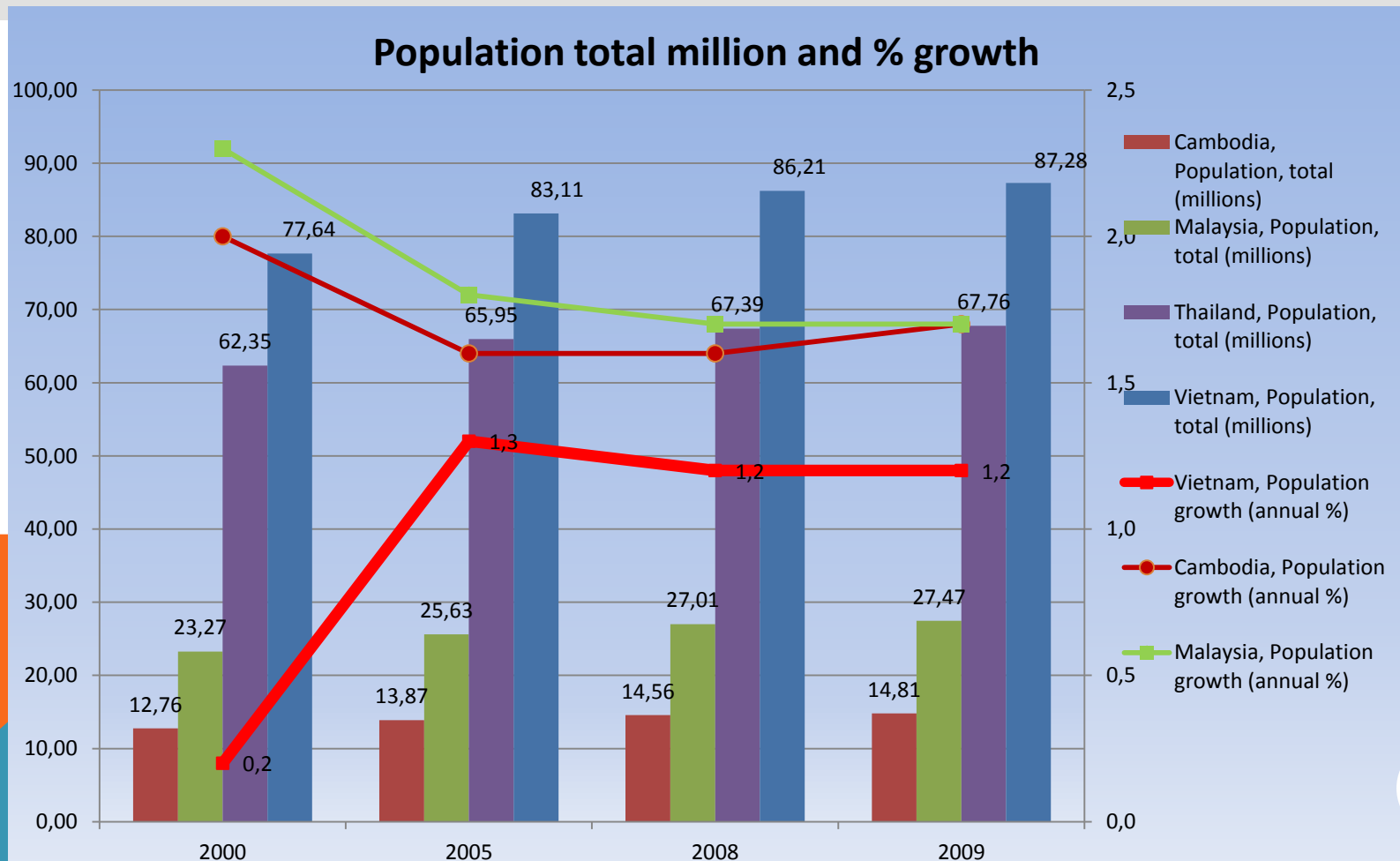
CONTENT

- Vietnam Key Demographics
- Rencontres du Vietnam
- Conference Centre : mission & vision
- The land in Quy Nhon
- The buildings
- Milestones and preliminary schedule
- How to support the Conference Center
- Contacts

VIETNAM KEY DEMOGRAPHICS

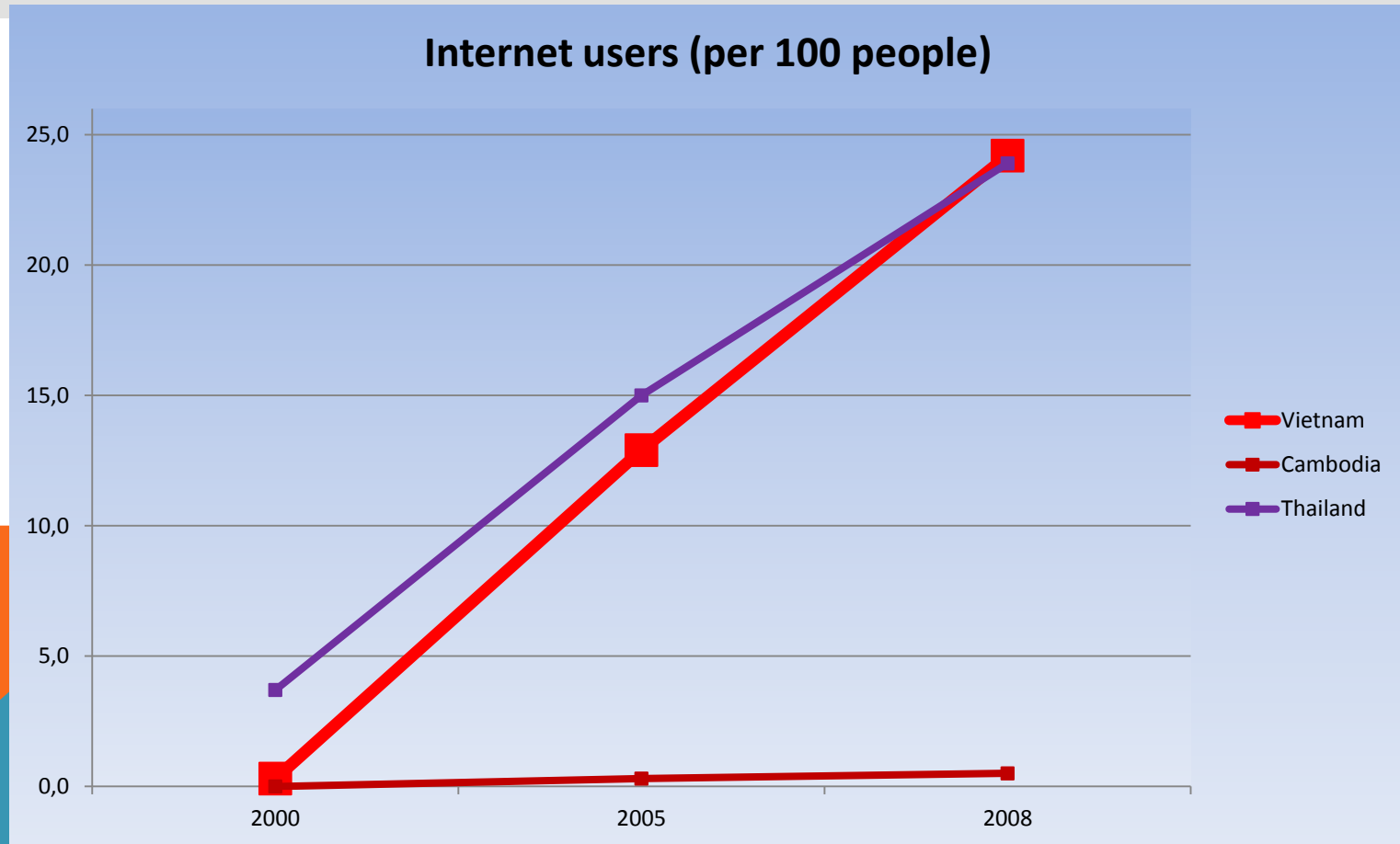
VIETNAM, A DYNAMIC POPULATION

- With a population close to 90 million, it is one of the most populated country in the region with more than 50% of its residents being less than 25 years of age.
- Population growth year-on-year is at an average of 1.2%, which ensures a sustainable growth of the country while avoiding over-population issues.



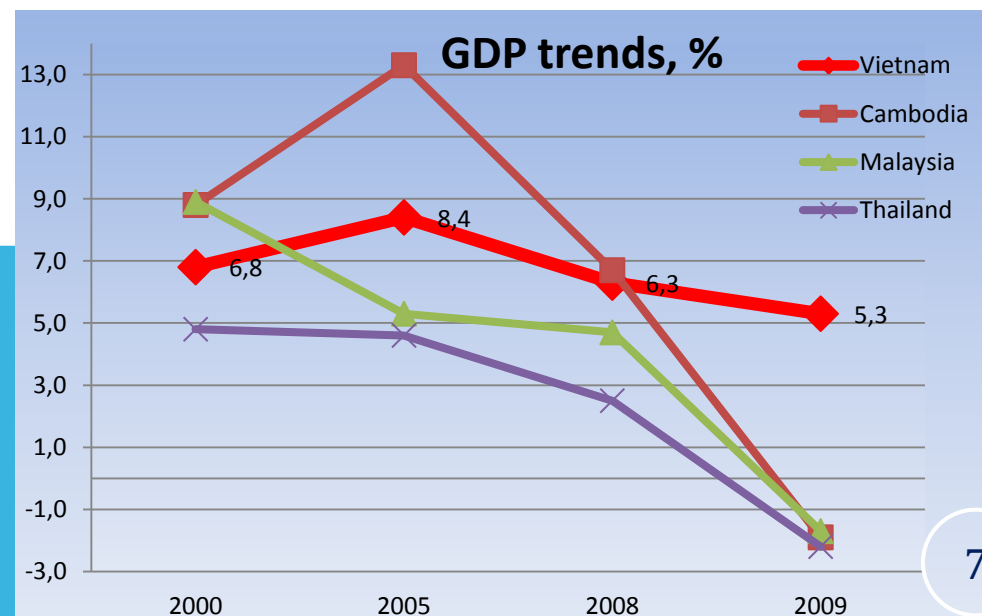
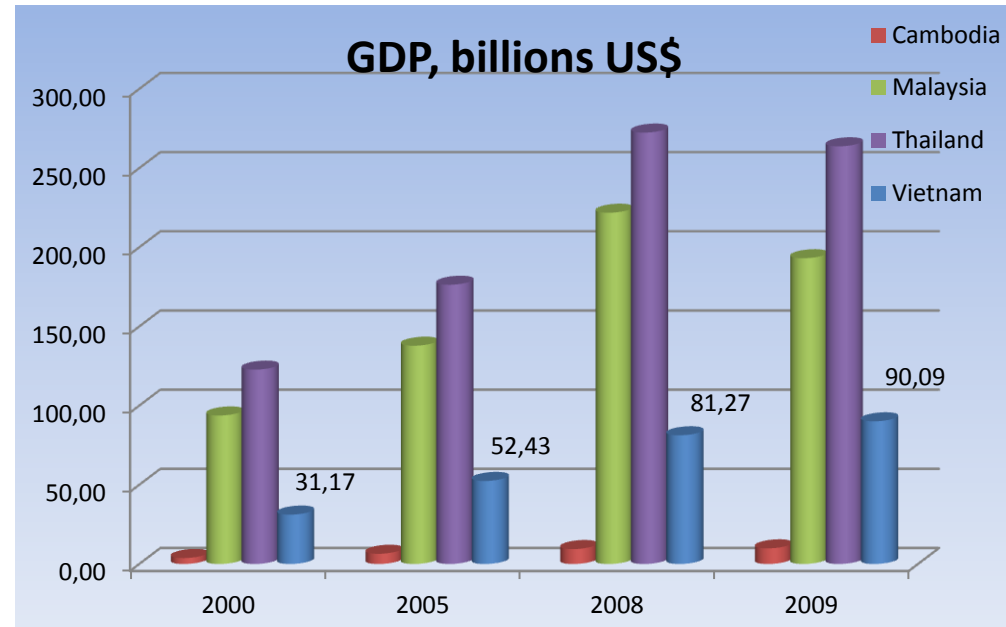
SIGNS OF A MATURE COUNTRY

- The number of internet users has dramatically increased; nowadays reaching the level of Thailand
- A new middle and upper class has emerged with higher expectations in terms of living standards and children education.



GDP IS GROWING DESPITE RECENT FINANCIAL CRISIS

- Vietnam has reached USD 90 billion GDP level in 2009, +11% versus 2008.
- Many other countries in the region have suffered from the last financial crisis and show negative trends.
- Forecasts for Vietnam economy indicates a 9 to 10% annual growth to reach USD 165 billion in 2015.
- **These are proofs of country stability and sustainable wealth, opening promising perspectives for further development initiatives.**



RENCONTRES DU
VIETNAM

RENCONTRES DU VIETNAM REALIZATIONS

- Since 1993, *Rencontres du Vietnam* has implemented and developed a large programme for Science and Education in Vietnam.
- *Rencontres du Vietnam* have been organized six *Rencontres du Vietnam* in: 1993, 1995, 1999, 2000, 2004 and 2006, with the aim of helping Vietnamese scientists and those of the Pacific-Asian world to establish contacts and exchanges with colleagues of the West, including many Nobel Laureates .
(see in <http://vietnam.in2p3.fr>).
- *Rencontres du Vietnam* has also organized Thematic Schools in Vietnam, including the "*Vietnam School of Physics*" Series since 1994. About fifty students from Asian countries attended each year the courses with 10 to 15 professors from Europe, Japan, India, USA etc ...
(see in <http://www.iop.vast.ac.vn/activities/vsop/index/html>).

RENCONTRES DU VIETNAM REALIZATIONS

- With the will to bring science to a larger public, *Rencontres du Vietnam* has also overseen **conferences for the general public** with well-known speakers such as Georges Charpak, James Cronin, Jerome Friedman, Norman Ramsey, George Smoot and Klaus Von Klitzing among many Nobel Laureates, as well as Axel Kahn, Hubert Reeves, Trinh Xuan Thuan, Pierre Léna,...
- Together with Leon Lederman and Georges Charpak, we have also introduced the "**hands-on**" (*La main à la pâte*) method of instruction to Vietnam, and in collaboration with French Teacher-Training Colleges, has constructed a network of more than 1,000 teachers trained in this method.
- Lastly, since 2001, *Rencontres du Vietnam* has developed a successful **programme of research and high school grants** (Vallet Fellowships), donated to 20,000 young Vietnamese students, helping them to study in Vietnam and at universities worldwide .

RENCONTRES DU VIETNAM REALIZATIONS COOPERATION WITH UNIVERSITIES IN VIETNAM

Rencontres du Vietnam has initiated the following international cooperations with Universities in Vietnam

- Cooperation between Brown University and Hanoi Natural Science University (Chung I Tan)
- Cooperation between University of Virginia and Hue University :
- Cooperation between French National Engineering schools (ENI) with Hue University : 2 first years in Hue followed by 3 years in one of the 6 ENI in France
- Cooperation between University of Qui Nhon and University of Marseille and University of Paris 7. A project of creating a medical school is in discussion between Paris 7 and University of Qui Nhon

CONFERENCE CENTRE
MISSION AND VISION

PROMOTE SCIENCE AND EDUCATION WITH A FULLY-DEDICATED CONFERENCE CENTRE

- The main project objectives are to focus on developing Science and Education, helping young Asian students and scientists to meet with the International Scientific community, have the opportunity to extend their knowledge from attending lectures and sharing ideas with overseas high-level colleagues.
- *Rencontres du Vietnam* has access to a large network of Moriond, Blois scientists to aid in the scientific organization of the Centre, plus a selected support team to manage the Centre.
- The experience and competence shown in the organization and management of the *Rencontres*, as well as the helpful network of scientists from around the world, are living evidence of the favorable development of international Conferences and Colloquia at ICISE.
- The Centre is open to welcome any active contribution from scientists around the world to allow the Centre to achieve its mission

THE GROWING DEMAND FOR KNOWLEDGE

- **Asia-Pacific emerging countries benefit from a dramatic economic development.**
- However it generally contrasts with their level of scientific and technological development.
- Result is in the high demand for collaborations, in fundamental research as much as in technological transfers and applications, which today opens up a large range of potential cooperation in Asia.
- Besides, this region is characterized by the youth of its population, and by the constant progress achieved in university education.
- There is a need to give to students from all those countries opportunities to take part in scientific projects with strong international dimension.

THE LAND IN QUY NHON

WHERE IS QUY NHON ?



- The ICISE will be erected at Quy Nhon, a city situated on the Vietnam coast.

PROJECT LOCATION



Google Earth



- The ICISE will be erected at Quy Nhon, a city situated on the Vietnam coast.



Project site, sand beach

Notes :

- 1. The site of the Center is about 4-5km from the Center of the town (Quy Nhon University)**
- 2. It is possible to walk from the Center to the Hotel used for the conferences . Isabelle has tested this road last December . It takes 45 min : a pleasant way along the coast, up and down the hills.**

QUY NHON



- Quy Nhon (300 000 inhabitants) is located
 - 600 km north of Ho Chi Minh City
 - 300 km south of Danang
 - and 1000 km south of Hanoithe city belongs to the Binh Dinh province (1,6 million inhabitants).
- Quy Nhon can be reached
 - By air :
 - From Ho Chi Minh City : 3 flights per day, 1 hour flight
 - From Hanoi : one daily flight , 1 hour 30 flight
 - By train : From Ho Chi Minh City : 10 hours

THE NUMEROUS ASSETS OF QUY NHON



- Quy Nhon is listed among the three high development priority cities in the center of Vietnam by the Vietnamese Government.
- The whole region is granted with beautiful mountains, landscapes, beaches and cultural treasures coming from the Cham civilization, and benefits from a mild climate, key to ensure promising prospective for tourism development.
- Quy Nhon has had a university for 50 years.
- Today there are 30,000 students with majors in Science and strong potential for development. Quy Nhon has become the new university center for Vietnam, after Ho Chi Minh city, Danang and Hanoi.





EXCLUSIVE ENVIRONMENT

- An area of 20 hectares (50 acres), has been offered by the provincial authorities to *Rencontres du Vietnam*. The site is located at about 5km south of the University (center of town)
- This land is ideally located between untouched mountains and the shore of the Eastern Sea, featuring a tiny river, rice fields and ponds, coconut and palm tree woods, and a 400 meters long sandy beach.
- The provincial authorities fully support the project and have agreed to build the necessary surrounding infrastructure including new access roads, water and electricity,



General view of the site : sea, river, mountains ...



River estuary



Riverside



Beach, the sea and the mountains



Plantations



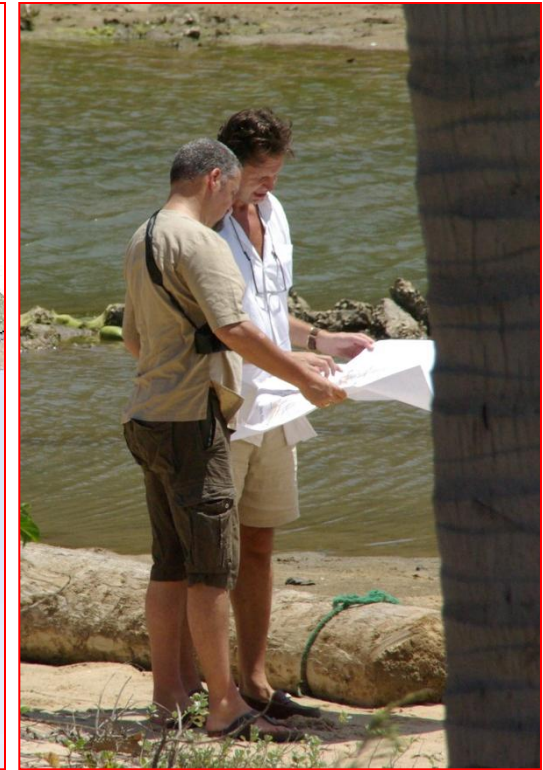
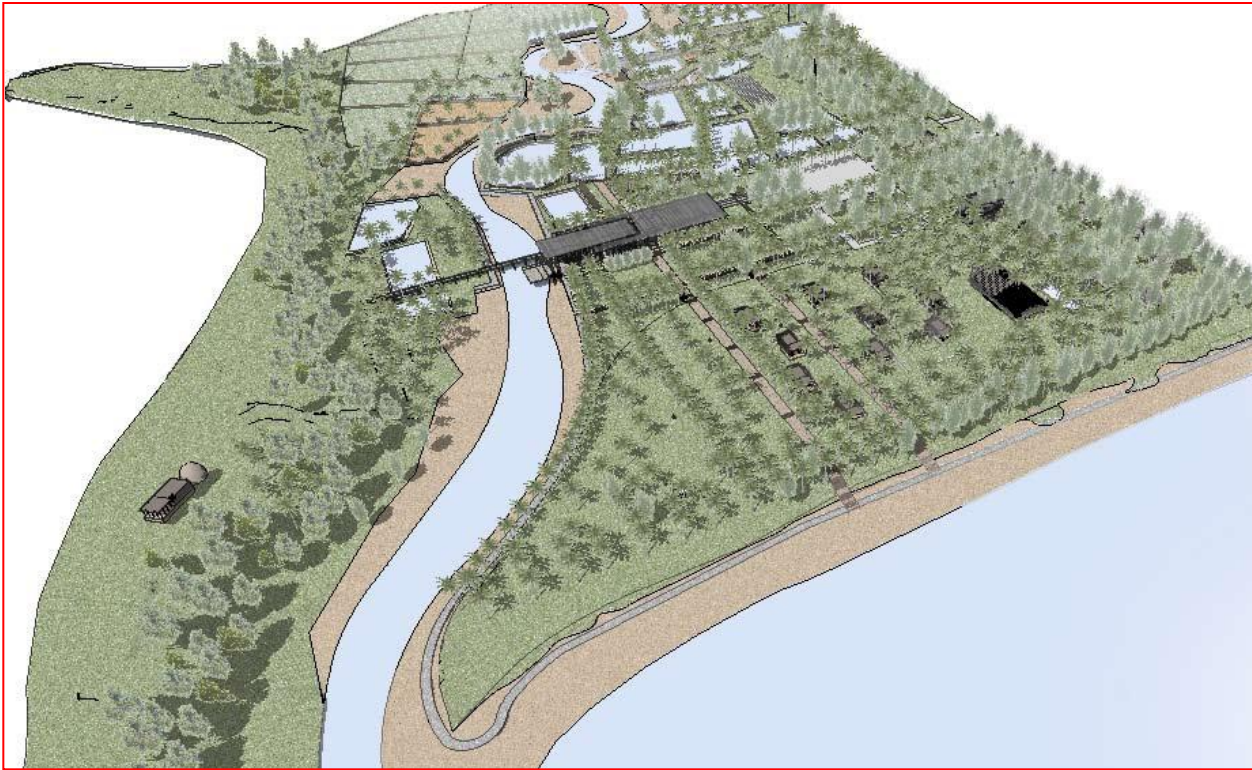


AN ENVIRONMENTALLY FRIENDLY PROJECT



- The 20 hectares land is offering great potential to develop a landmark conference Centre with best-in-class hotel facility while preserving the environment.

DESIGN AND ARCHITECTURE

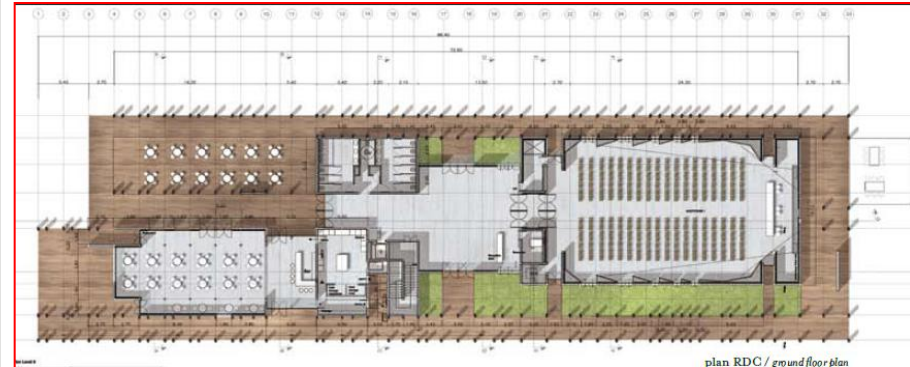


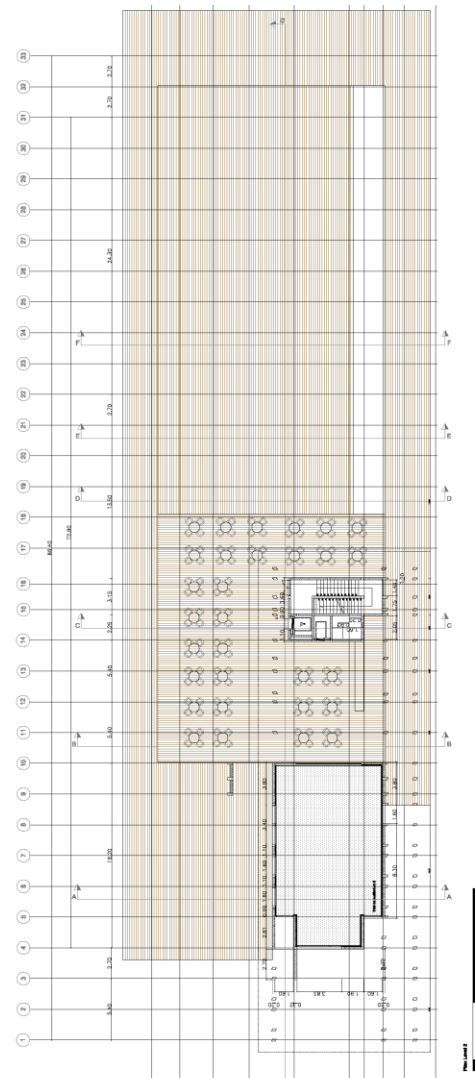
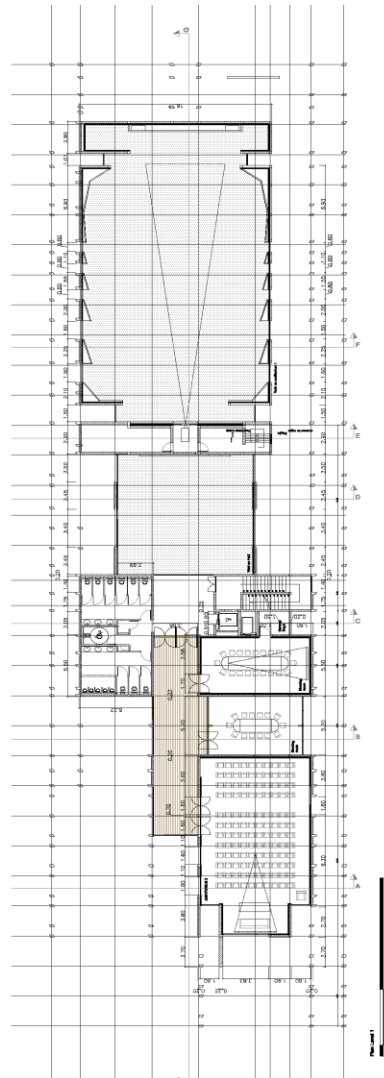
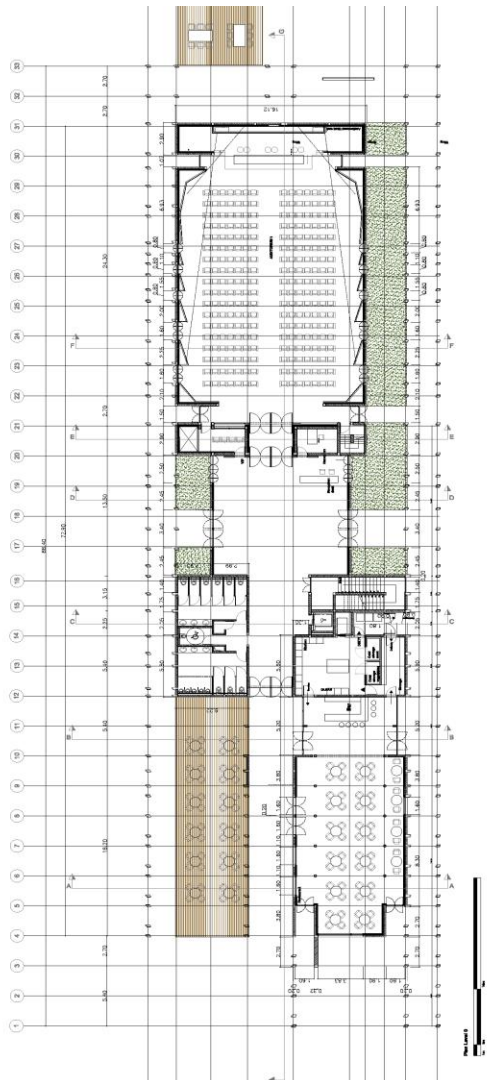
- The architect firm in charge of the project is Studio Milou founded by highly recognised architect Jean-Francois Milou.
- He and architect Thomas Rouyrre are both closely involved in the project.
- Studio Milou has recently won the world-wide competition to design the National Museum of Arts in Singapore.
- Studio Milou, with branches in Paris and Singapore, is known for its expertise in designing architectures connected to cultural or educational programmes.

THE BUILDINGS

THE CONFERENCE CENTRE

- In its initial stage, the Center will consist of a Conference Building with Auditoriums, seminar rooms, and offices for study and research.
- Total size of more than 2,000 sq. meters;
- 1 auditorium : 350 seats;
- 1 conference room : 120 seats;
- 2 seminar rooms with 30 to 50 seats each;
- A coffee shop with 2 outdoors terraces.

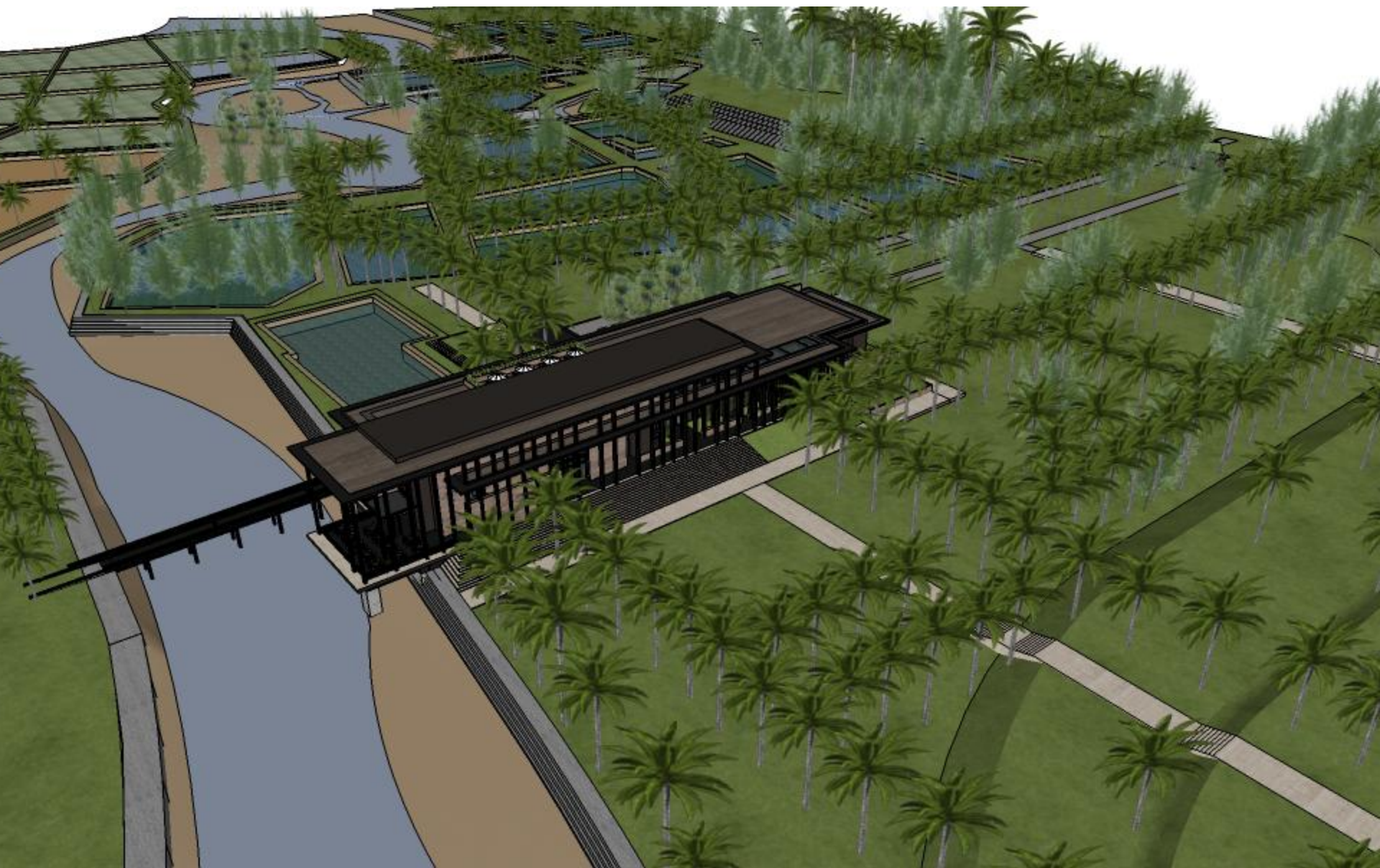


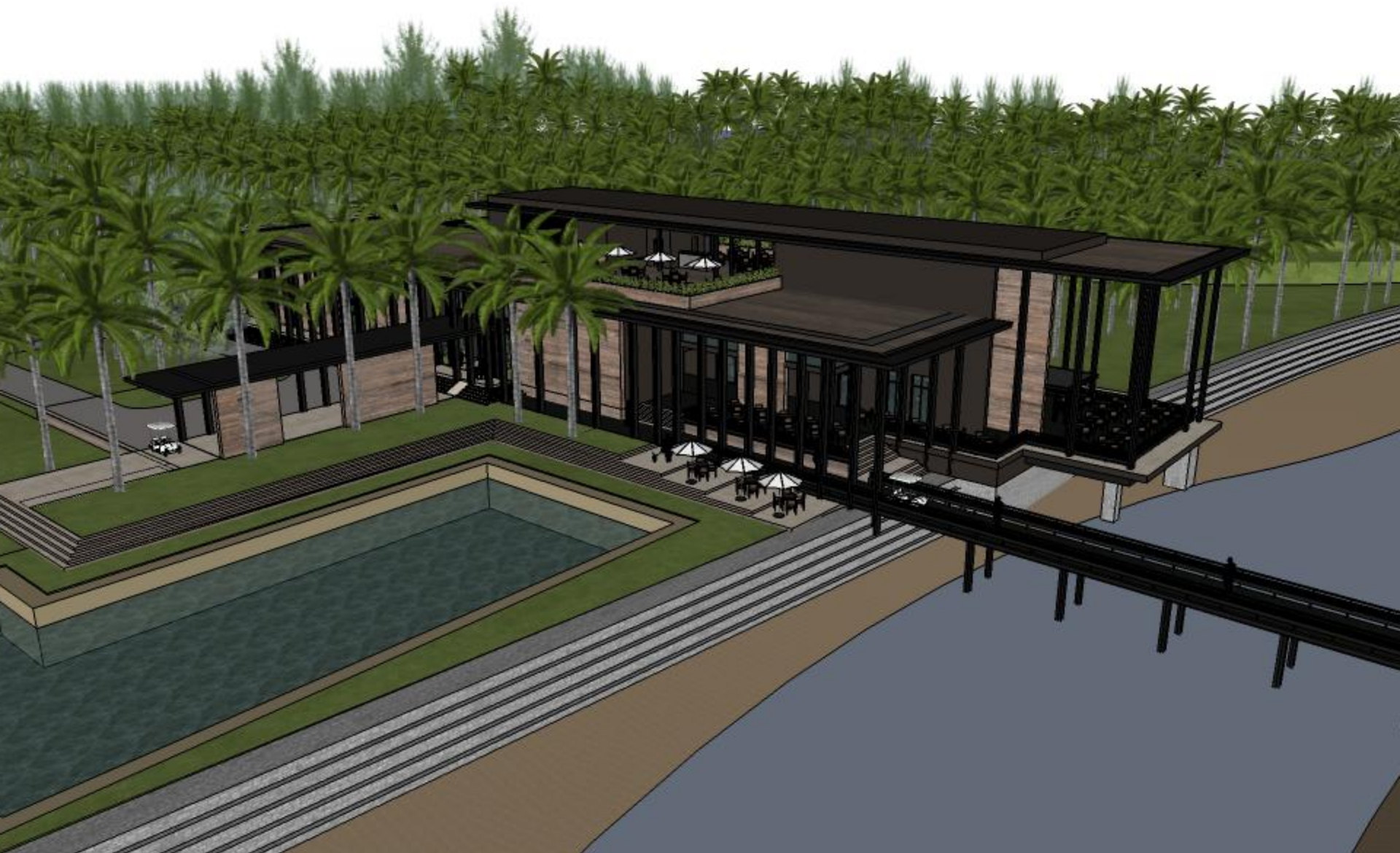


Conference Center : Ground floor, First floor , Rooftop Terrace



Conference Center : East and West views





The Conference Center : Perspectives from the South side





INTERNATIONAL CENTRE FOR INTERDISCIPLINARY SCIENCE AND EDUCATION
QUY NHON - VIETNAM
studioMilou architecture

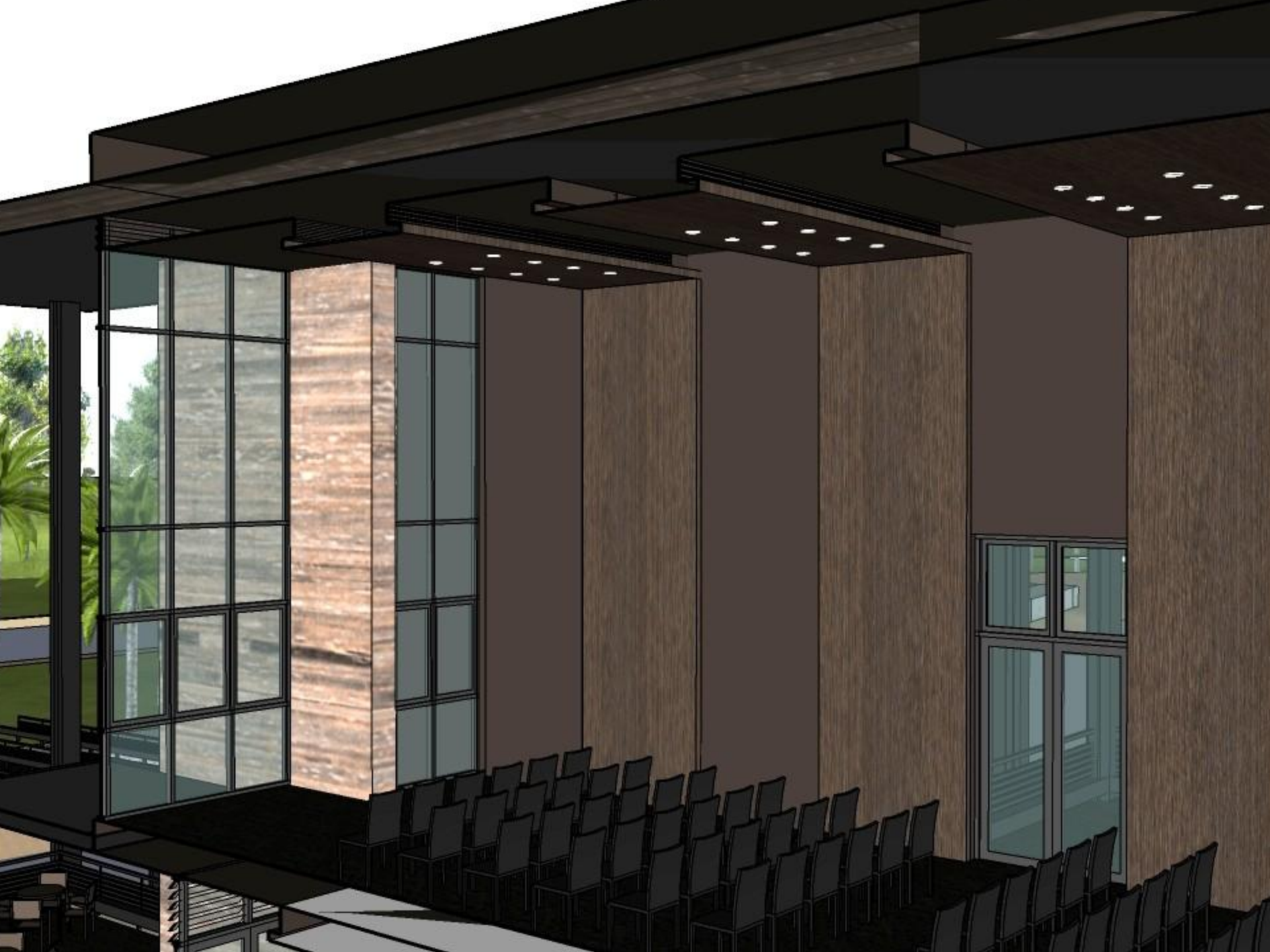


INTERNATIONAL CENTRE FOR INTERDISCIPLINARY SCIENCE AND EDUCATION
QUY NHON - VIETNAM
studioMilou architecture









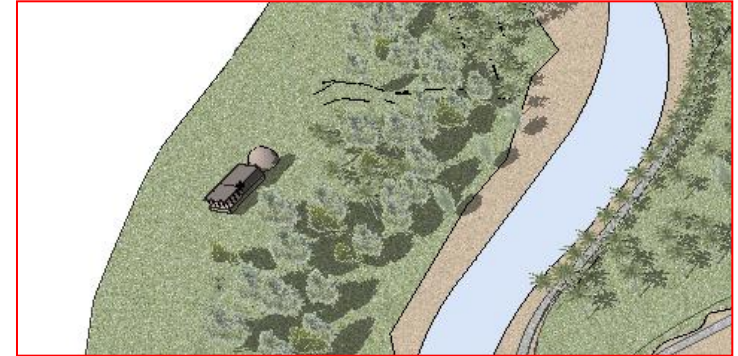
THE RESORT COMPLEX

- 30,000 to 50,000 sq. meters – as part of the land – are devoted to develop the resort, with a prime location close to the sea.
- A 3 to 4 stars-type hotel with approx. 100 rooms split among one main building and several villas,
- Restaurant & bar;
- Swimming pool;
- Spa, tennis courts and other resort-type facilities.
- The resort will welcome Conference participants and will benefit from the rapid tourism development in the region.
- In return it will enhance the notoriety of the Centre with a larger public.



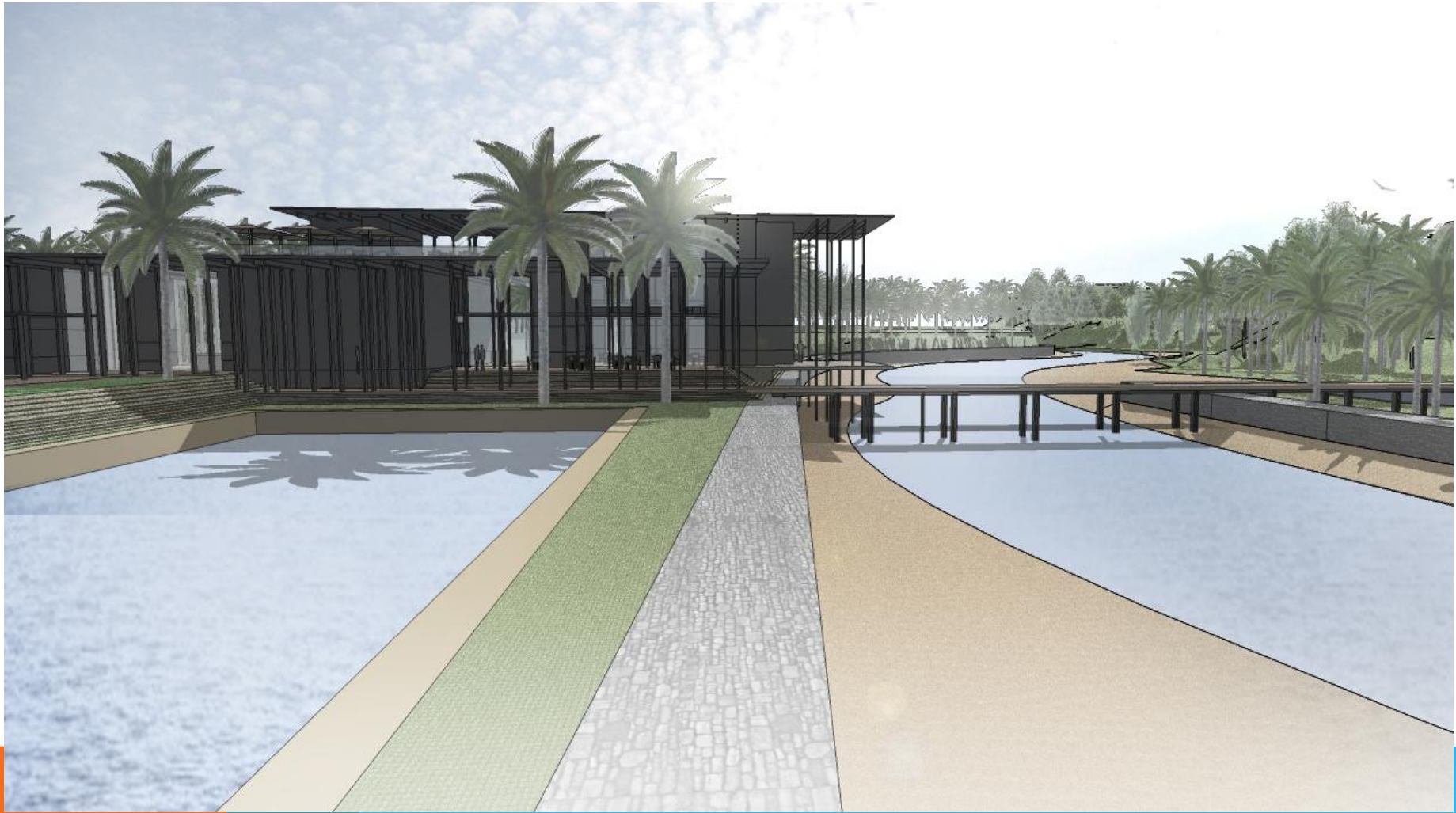
OTHER PROJECTED BUILDINGS

- A ***planetarium***, to be constructed on the hill and visible to passing traffic, aimed to share the pleasure of research with the general public. This planetarium, one of the few in Vietnam, will be an educational resource for schools and other educational establishments in the province.
- An ***Exhibition Room and a Library***, with "hands-on" demonstrations and apparatus.
- Several ***Cogitum*** will provide peace and privacy to serve as retreats for meditation and discussions.
- An ***Engineering School***, providing Master-level professional instruction, will be set up, in collaboration with top international universities.

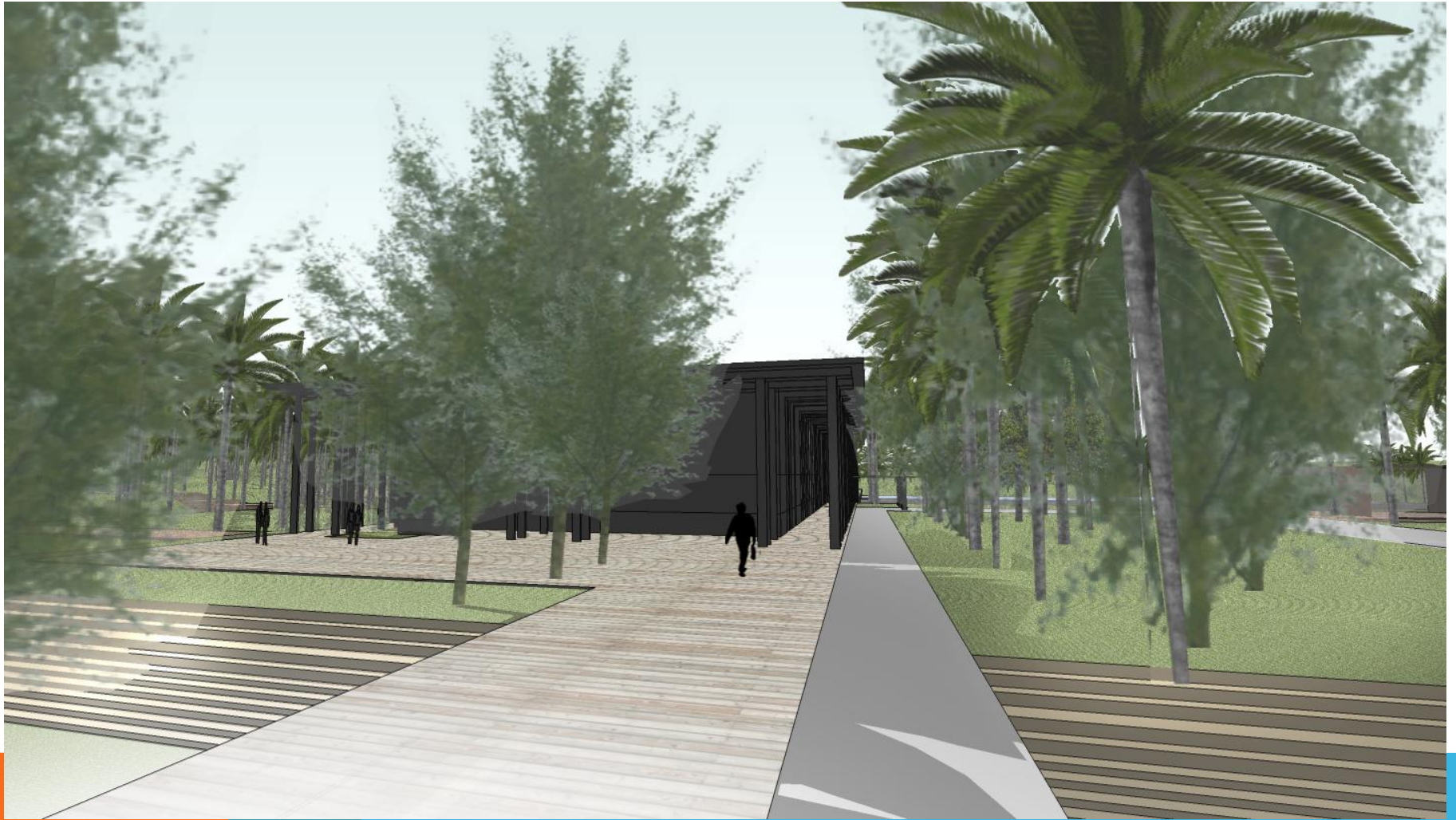




The conference Centre : Perspectives from the estuary,



The conference Center : Perspective from the West side



The Conference Center : View from the entry gate





The Conference Center : Perspectives from the Terrace

MILESTONES AND PRELIMINARY SCHEDULE

CONFERENCE CENTRE FORECASTED ACTIVITY

- An International Scientific Council will be created whose mission is to plan the activity to the Centre.
- The conference Centre management and day-to-day operational administration will be the responsibility of a dedicated team under ICISE.
- Two Conferences have been organized in Quy Nhon in December 2011
 - Frontiers in QCD : from Puzzles to Discoveries (Chung I Tan)
 - 10th Int. Conference on Gravitation and Astrophysics (Roland Triay)
- 3 conferences are planned in 2012 with an average of 100 attendees each.

ABOUT THE QUY NHON CONFERENCES DECEMBER 15-21, 2011

FRONTIERS IN QCD : PUZZLES AND DISCOVERIES

MAIN ORGANIZER : **CHUNG I TAN**: TAN@HET.BROWN.EDU

[HTTP://WWW.PHYSICS.BROWN.EDU/HET/VIETNAM2011/CONFERENCE.HTML](http://WWW.PHYSICS.BROWN.EDU/HET/VIETNAM2011/CONFERENCE.HTML)

&

**TENTH ASIA-PACIFIC INTERNATIONAL CONFERENCE ON
GRAVITATION AND ASTROPHYSICS**

MAIN ORGANIZER : **ROLAND TRIAY**: ROLAND.TRIAY@CCPT.UNIV-MRS.FR

[HTTP://WWW.CPT.UNIV-MRS.FR/~COSMO/ICGAC10/ICGAC10.HTML](http://WWW.CPT.UNIV-MRS.FR/~COSMO/ICGAC10/ICGAC10.HTML)





Quy Nhon 12-2011



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Quy Nhon 12-2011



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Quý Nhơn - tháng 12/2011



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LỄ KHỞI CÔNG CÔNG TRÌNH
M QUỐC TẾ KHOA HỌC VÀ GIÁO DỤC LIÊN NGÀNH
GROUND - BREAKING CEREMONY
AL CENTER OF INTERDISCIPLINARY SCIENCE & EDUCATION





Quy Nhơn - tháng 12/2011



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<http://www.mreumandarin.com>

Quy Nhơn - tháng 12/2011





20.12.20

FUTURE ACTIVITIES

Conferences scheduled for 2012

. Beyond the Standard Model in Particle Physics : July 15-21, 2012

<http://confs.obspm.fr/RencontresVietnam/BTSM/index.htm>

Main organizers : Marc Besancon & Christophe Grojean

. Heavy Ion Collisions in the LHC era : July 15-21, 2012

<https://indico.cern.ch/conferenceDisplay.py?confId=163815>

Main organizers : François Arleo & Carlos Salgado

**. BSM : Extended fermion and Scalar boson sectors :
December 16-21, 2012**

Main organizers : P.Q. Hung & François Le Diberder

FUTURE ACTIVITIES

Conferences planned for 2013 (dates to be confirmed)

- . Opening conference of the Center :**

 - Windows on the Universe : July 21-27**

- . Neutrino physics : July 28 – August 3 (Belen Gavela)**

- . Cosmology : August 4-10, (Jacques Dumarchez)**

- . General Relativity and Gravitation : August 4-10 (Roland Triay)**

- . Heavy Flavours : Dec 15-21 (Andrey Golutvin, Bolek Pietrzyk & Andreas Schopper)**

CONFERENCE CENTRE FORECASTED ACTIVITY

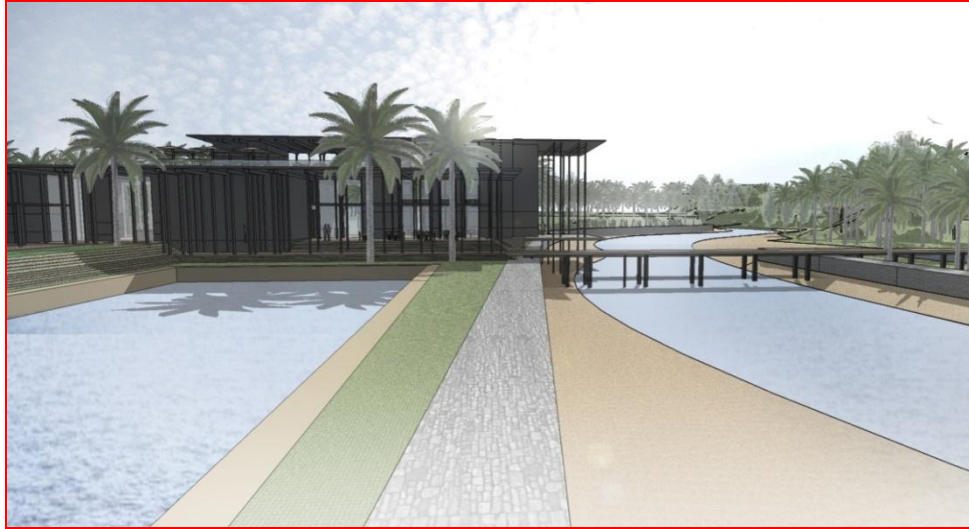
- Once it has opened, the Centre will be able to welcome a dozen high-level international conferences every year, in all disciplines (basic and applied science, medicine, humanities and social sciences). Each conference will bring together between 70 and 150 participants for periods of 5 to 6 days.
- The Centre will also accommodate several two-week thematic schools every year, with groups of 40 to 50 students and junior researchers, coming particularly from South East Asia, with senior participants coming from Asia, Australia, Europe and the Americas.
- All those activities will be proposed by the partner institutions, with the Center offering administrative and logistical support.

GENERAL SCHEDULE 2011-2016

- Architecture : the overall plan and elevation of the conference building are done.
- 2011-2012 :
 - Conference Centre construction technical studies;
 - Start of the construction of the Conference building in May 2012;
 - Identification of the hotel developer and business partnership negotiations.
- 2013 :
 - End of the construction of conference building
 - **Official opening of the Conference Centre** (July 21?) with its first series of conferences
- 2014-2016 :
 - Construction of the hotel complex
 - Official opening of the hotel
 - 5-8 international conferences per year to be hosted by the Conference Centre

HOW TO SUPPORT THE CONFERENCE CENTRE

THE CONFERENCE CENTRE PARTNERSHIP



- Today the “Rencontres du Vietnam” Association is looking to set up a consortium of partner scientific institutions willing to associate themselves with the project, by agreeing to contribute actively and regularly to its scientific program.
- It is wished that the institution partner express, in a letter of intention, their interest in the project and their agreement to organize or co-organize regularly at least one international conference at the Center.

- **Initiative from Brown University :** Creation of Quy Nhon Foundation for Science and Education. IRS has agreed for the status of non profit organization (tax deductible)

LOCAL AND INSTITUTIONAL SUPPORTS

VIETNAM TOP LEADERS COMMITMENT

- The Vietnamese Administration has given full support to the project, from local authorities up to the Prime Minister and relevant ministries in Hanoi.
- The President of Vietnam has already received delegations of visiting scientists at the Presidential Palace in Hanoi, showing his deep interest for matters of science, education and new discoveries.
- The right to use this land is given for 50 years and is officially confirmed with a final & signed document.



President of Vietnam Nguyễn Minh Triết (center) surrounded by Nobel Laureates James Cronin and Klaus Von Klitzing, welcoming Physics Conference guests at the Presidential Palace.



PRESTIGIOUS INTERNATIONAL SUPPORTS



French
CNRS

Professor Jean Tran Thanh Van
104B, avenue du Général Leclerc
91190 Gif Sur Yvette

Paris, december 22nd, 2010

Dear Professor Jean Tran Thanh Van,

I would like to express my strong and enthusiastic support to your initiative to establish the International Center for Interdisciplinary Scientific Meetings in Vietnam.

With your long experience in organizing important international conferences and events, I am sure that this initiative, under your leadership, will be a success.

I look forward to helping you and seeing you on this matter.

Best wishes for a full success.

Michel Spiro
CNRS and President of the CERN Council



Russian
Dubna

02.04.2010 № 010-26/105
на № _____ от _____

Prof. Jean Tran Thanh Van
104B Avenue du General Leclerc
91190 Gif sur Yvette, France

Dear Professor Jean Tran Thanh Van,

We would like to express our appreciation of your extremely interesting plan to establish the International Centre for Interdisciplinary Scientific Meetings in Vietnam.

There is a long standing tradition of fruitful scientific cooperation between JINR and Vietnam. The Socialist Republic of Vietnam is one of 18 Member States of the Joint Institute for Nuclear Research – in September 1956 the JINR Committee of Plenipotentiaries admitted Vietnam to the membership of JINR. Traditionally, Vietnamese scientists and specialists take part in research at JINR in the topics related to computing, development of electronic systems and condensed matter physics. Vietnamese physicists-theorists headed by Academician Nguyen Van Hieu keep close relations with JINR.

Due to your forty five-year experience in organizing important international scientific conferences, we are sure you will succeed in establishing and leading the new Centre in Vietnam. We would like to confirm you that the Joint Institute for Nuclear Research wishes to become a partner of this Centre.

Wishing you every success,

Sincerely yours,

Alexey Sissakian
JINR Director
Academician



French
National
Committee
UNESCO

Monsieur Jean Tran Thanh Van
104 B Avenue du Général Leclerc
91190 Gif sur Yvette

Le Président

CNAU/MA - n° 406

Cher Collègue et Ami,

Par cette lettre je viens vous apporter mon soutien le plus chaleureux à votre projet de mise en place d'un centre international d'éducation scientifique interdisciplinaire à Qui Nhon, Vietnam. Plusieurs raisons justifient mon adhésion enthousiaste à cette opération :

- la mise en place d'un tel centre constituera un élément essentiel du système universitaire d'un pays, ami de la France, qui se développe sur tous les plans à très grande vitesse ; la participation de notre communauté scientifique au bon fonctionnement de ce futur centre renforcera, s'il en était besoin, les liens entre le Vietnam et la France.
- Il est également dans la vocation de l'Unesco d'apporter son aide dans la réalisation d'un tel centre qui correspond aux objectifs de cette organisation des Nations Unies. Si vous le jugez utile, je solliciterai à ce propos Madame la Directrice générale de l'Unesco pour qu'elle vous manifeste son appui.
- La réussite de tout ce que vous avez vous-même accompli (rencontres de Moriond, de Blois ; et du Vietnam ...) me donne l'assurance que, grâce à vous, à votre dynamisme et votre opiniâtreté, ce centre verra prochainement le jour dans les meilleures conditions possibles.

Compte tenu des intérêts économiques qui lient plusieurs des grandes entreprises françaises au Vietnam, je vous encourage à les solliciter afin qu'elles vous apportent les concours que vous êtes en droit d'attendre d'elles.

Je suis évidemment prêt à vous accompagner, dans la mesure des mes moyens pour vous aider à réussir cette belle opération ambitieuse.

Veuillez agréer, cher Collègue, l'expression de mes sentiments très amicaux.

Jean Audouze

57, BOULEVARD DES ÉVALUÉS
75700 PARIS 07 SP
TELEPHONE : (33) 1.53.69.37.80
TELECOPIE : (33) 1.53.69.32.24
WWW.UNESCO.FR

- The Conference Center project is a key element in elevating the close network of international cooperation for scientific research around the entire world.
- It has already received the full support of the International Science Community including several Nobel Laureates and heads of prestigious international Institutions and universities in Europe, America or Asia-Pacific : CERN, JINR (Dubna), French National Committee of UNESCO, ...

IN SUMMARY

The Centre is aimed at developing Science and Education in Asia Pacific rim, in particular in Vietnam.

We invite all our Moriond friends to collaborate with us to develop the Centre

We would appreciate

- if you can convince your University or Institution to be partner of the Centre
- if you can plan to have a conference or a colloquium at the Centre in the next few year.

CONTACT

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104B Avenue du Général Leclerc

91190 Gif sur Yvette

France

Tél : +33 (0)1 69 28 51 35

email : jtrantv@gmail.com

MAIN CONTACT



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ns in strongly coupled theories??

scattering $\int d^4x e^{ip_2 x} \langle h(p_2) | T(J^\mu(x) J^\nu(0)) | h(p_1) \rangle$



$$= iT^{\mu\nu}$$

$$= \sum_i C_i^\mu(q) \langle h(p_2) | O_i(0) | h(p_1) \rangle$$

OPE

partons (PDF/GPD) \Leftrightarrow twist-2 optrs.

\Leftrightarrow leading trajectory in string theory

er '02
Strassler Tan '06

Gubser et al. '02
BPST '06

$$\int ds \sqrt{-g(x)} P(x) \int ds' \sqrt{-g(x')} P(x') K(x, z, z', x')$$

$$= -\frac{1}{2} R \sqrt{\lambda} \int_0^\infty d\omega \frac{1}{2\pi i} \int_{C_1, C_2} d\zeta \frac{1 + e^{-\omega \zeta}}{\sin \pi \zeta} \frac{1}{\Gamma^2(\zeta/2)}$$

$$\left(\frac{\alpha\lambda}{4}\right)^j \frac{1}{j - \left(\frac{j}{2} + \frac{j}{2\lambda}\right)} e^{-j\lambda(x)} \Phi_{\frac{j}{2}}^{(j)}(z, x) e^{-j\lambda(x')} \Phi_{\frac{j}{2}}^{(j)}(z, x')$$

7

Vietnam

Workshop on

Scattering

October 15 - 21, 2011





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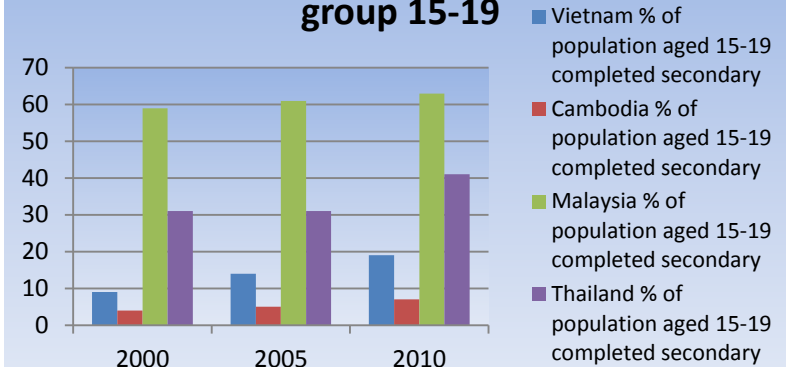
<http://www.mrcumandarin.com>.

Quý Nhơn tháng 12/2011

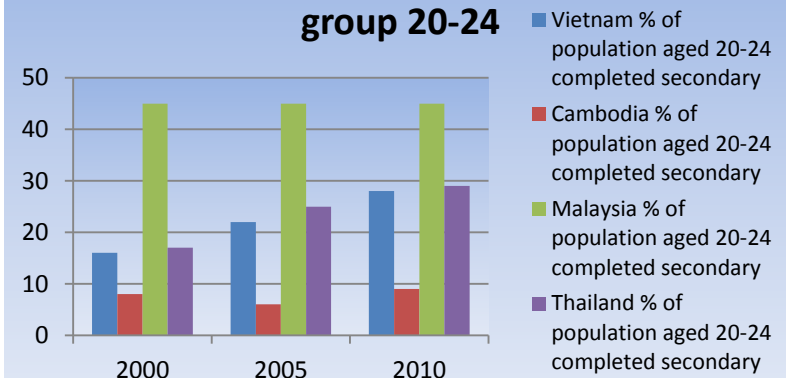
AN INCREASED LEVEL OF EDUCATION OVER THE DECADE

- Proportion of secondary-educated population has doubled in the past 10 years.
- Among the 20-24 age group, proportion of secondary-education completed has currently reached the level of Thailand
- Tertiary-education (college) level is still low but shows sharp improvement over the last 10 years.
- **Education is an important component of the traditional Confucius spirit.**
- Secondary schools benefit from elite pupils, winning gold medals in international school and Olympiad contests in Math or Physics.

Secondary education among age group 15-19



Secondary education among age group 20-24



Tertiary education among age group 25-29

