Use of Management Technologies at the Newly Established Okinawa Institute of Science and Technology (OIST) to Meet its Multiple Accountability Requirements

Patrick VINCENT
Director Finance and HR
OIST
Okinawa Institute of Science and Technology (OIST)
沖縄科学技術大学院大学

http://www.oist.jp/en
1. OIST’s Objectives

By conducting internationally distinguished education and research in science and technology in Okinawa

Contribute to the promotion and self-sustaining development of Okinawa

Contribute to the development of science and technology worldwide

2. OIST’s Concept

- Best in the world
- International
- Flexible
- Global Networking
- Collaboration with Industry

(OIST School Corporation Act)
Campus Construction

Under Construction:
Lab2 and Auditorium
Q2  2012

Existing Campus:
Lab1 & Center Bldg
Q4 2012

Village Zone

Lab Zone
Fast Growth till FY2014

Operating budget: about JPY 11 bio ( EUR 100 mio)

24 Research Units in FY2010 + 17 in FY2011
OIST PC to OIST SC: a Corporate Metamorphosis!

OIST School Corporation Act

November 2011

Prime Minister
Cabinet Office

Ministry of Education
(MEXT)

OIST
Promotion Corporation
“Independent Administrative Institution”

OIST
School Corporation
“Private University”

OIST Accreditation Team in place since 2008
Time Flow to the Opening

- March 2002  Creation of Graduate University stipulated by Okinawa Promotion Special Measure Act
  
- Sep. 2005  OIST Promotion Corporation (OIST PC) Inauguration
  
  Objectives of OIST PC
  1. Conduct world class research in Okinawa
  2. Prepare for the Graduate University

- March, 2011  Applying for Accreditation

- Fall, 2011  Accreditation / Establishment of OIST SC and Graduate University

- Sep. 2012  Commencement of Students
Features of the Graduate University

- Single interdisciplinary graduate program
- Five-year integrated doctoral program in sciences
- About 20 students enrolled per year with about 50 faculty members
- Education & research conducted in English
- At least half of the students/faculty members to be non-Japanese
PC to SC: A discontinuity in several major areas

OIST PC

- Assets, contracts, liabilities etc.
- Corporate Governance
- Rules and Regulations
- Nature of subsidies
- Accounting standards
- Corporate culture
- Etc.

OIST SC

November 2011

OPPORTUNITY
For Change!
Opportunity: Complete revision of Corporate Rules and Regulations

OIST PC → OIST SC
November 2011

Opportunity for:
- State of the art corpus of policies, rules, and regulations
- Staff involvement
- High quality bilingual language
- etc.


9 key areas (+1)

1. Japanese Legal Requirements
2. Government Relations/Affairs
3. US Universities: Best Practices
4. European Institutions: Best Practices
5. Finance/Administration/HR
6. Faculty Governance
7. Education and Student Governance
8. Generalists
9. Safety, Research Compliance, Ethics

+ Translation
Opportunity: Complete restructuring of Administrative processes

OIST PC ➔ OIST SC
November 2011

ERP (Enterprise Resource Planning)
Major Project started in October 2009

Opportunity for
  Efficiency improvement (measure ?)
  Bilingual system
  Electronic workflow and Document Management
  Management of external funding
  “Dual reporting”
  Budget holder accountability
  etc.
"ERP system" in OIST SC: Modular strategy

System Platform (Directory Service: OpenLDAP)
システム基盤（ディレクトリーサービス: OpenLDAP）
ERP Project: very significant personal involvement

OIST Executive Office

Project Director

PMO (Project Management Office)
Project Manager Project Members

External Consulting
BBS Dec-Jan.

End users
Tests/management of change

Users
EXO

Users
RU
Common Resources

Users
Admin
Facility group

Users
Faculty, Academic affairs
Students

Users
CAO
MEXT

Research Units

Task force
Specifications of functionalities and Workflows

IT Infra Structure
IT Section

Core & External funding
Accounting Section
Procurement Section
Budget Section
External Fund.

Human Resource
HR Operations Section
R & A Section

Document Management & WF
General Affairs Section

Travel Management
General Affairs Section
Accounting Section

Budget Planning
Budget Section

Academic Affairs
Academic Affairs Division

Common Resources
Common Resources Group

Vendors
Development
Data exchange – interfaces

Core & External funding system
Vendor SIG

Human Resource System Vendor

Document Management & WF
System Vendor

Travel Management System Vendor

Budget Planning System Vendor

Academic Affairs System
Sakai

Common Resources System vendors
ERP Planning: no safety net for “big bang” date

<table>
<thead>
<tr>
<th>OIST PC</th>
<th>OIST SC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009.12 – 2010.11</td>
<td>2011.11 – 2012.6 *1</td>
</tr>
<tr>
<td>Spec preparation</td>
<td>Operation</td>
</tr>
<tr>
<td>Business process improvement</td>
<td>Bug fixing/Evaluation</td>
</tr>
<tr>
<td></td>
<td>First account closing</td>
</tr>
<tr>
<td></td>
<td>Data migration</td>
</tr>
<tr>
<td></td>
<td>Maintenance</td>
</tr>
<tr>
<td></td>
<td>Additional functions</td>
</tr>
<tr>
<td></td>
<td>Improvement</td>
</tr>
</tbody>
</table>

Prototype testing starts in June

“Big Bang” in November
Eligibility for Research funding Organizations •••: Pre-Audit?

Accountability vis a vis International community, research funding organization, sponsors etc.: restate Financial statements from Japanese to International Standard (if any?)

Bilingual English/Japanese – Translation is an important communication and governance issue: European Commission experience in machine/human translation?

Etc.
Last but not least!... A corporate identity to build

OIST PC  ➔  OIST SC

November 2011
OIST moving Rapidly Towards a Balance between the Life/Bio and the Physical Sciences
Have active recruitment for physicists: condensed matter physics; AMO; bio-physics; Nano-science; quantum computation; membranes; computational physics; fluid mechs.
Education

Dr. Bern Kuhn at Onna Junior High School
アラン・クーン博士 恩納中学校講演会
December, 2010 (平成22年12月)

Dr. Satoh at Ishikawa High School
佐藤恒行博士 石川高等学校講演会
June, 2010 (平成22年6月)

Nakadomari Junior High School Students at OIST
仲泊中学校の皆さん (於: OIST)
December, 2010 (平成22年12月)

Dr. Gordon Arbuthnott at Yamada Junior High School
ゴードン・アーバスノット博士 山田中学校講演会
December, 2010 (平成22年12月)

Dr. Alexander Mikheev at Afuso/Kisenbaru Junior High School
アレクサンダー・ミキシェフ博士 安富祖/喜瀬武原中学校講演会
January 26, 2011 (平成23年1月)

Dr. Ulf Skoglund talks for Nakadomari Junior High School at OIST
ウルフ・スコグランド博士 仲泊中学校講演会 (於: OIST)
December, 2010 (平成22年12月)
Thank you for your attention