Nurturing a Prosperous Africa in the 21st Century

“Endeavoring to make Japan a nation with the lowest tax rate among all of the developed countries, a leading nation in the development of next generation technology to create new industries, as well as, a nation indispensable in solving poverty across the developing world.”

George Hara

- Chairman of the Board, Alliance Forum Foundation
- Group Chairman and CEO, DEFTA Partners
- Advisor, Japanese Ministry of Finance
- Prime Minister’s Special Commissioner on the Government Tax Panel
- Advisor, Japanese Ministry of Economy, Trade, and Industry
- Advisor, Japanese Ministry of Internal Affairs and Communications
DEFTA PARTNERS GROUP

DEVELOPING WORLD
- Africa
- Asia
- Latin America
  - bracNet
    - Bangladesh

JAPAN
- Tokyo
  - DEFTA Capital
  - DEFTA Technologies
  - DEFTA Investment

USA
- San Francisco
  - UK
  - Israel

-bracNet-
The Historical Trend of Key Industries

Current Key Industries
- Steel
- Textile
- IT Industry (Computer Centric)

Key Industry 80 years ago
- Steel
- Textile

Key Industry 40 years ago
- IT Industry

Developing Countries can leapfrog beyond the IT era through the use of PUC technology

PUC Technologies will create the Post-computer industry

PUC = Pervasive Ubiquitous Communications

Standard of Living

Shift to next key industry

Communicator Industry PUC

Post Computer Industry

Improving the Standard of Living in Developing Countries through the Use of PUC Technologies

DEFTA is taking the lead in developing Low Cost Infrastructure in at least one region in Asia, Africa, and Latin America
Usage of Broadband Infrastructure

- **Distance Learning**
- **Access to the World**
- **Businesses / Individuals**
- **Community**
- **Educational Contents**
- **Local Contents**
- **Medical Contents**
- **Business**
- **Culture Entertainment**
- **Telemedicine**

Access to the World includes:
- Educational Contents
- Medical Contents
- Business
- Culture Entertainment

Local Contents includes:
- Telemedicine

Businesses / Individuals includes:
- Community
- Access to the World

Distance Learning includes:
- Businesses / Individuals
- Community
- Access to the World
Background on Bangladesh

The People’s Republic of Bangladesh

1. Area: 144 thousand km²
2. Population: 150 million
3. Capital: Dhaka
4. Ethnicity: 98% Bengali
5. Language: Bengali
6. Religion: Islam 88.1%
7. Main Industry: Textile, Fishery, Jute and etc.
8. GDP Per Capita: $480
9. Literacy Rate: 49.7%
10. Poverty Rate: 50%
What is BRAC (Bangladesh Rural Advancement Committee)?

BRAC: World’s Largest NGO with an Annual Expenditure of $500 million

Over the past 33 years, BRAC has taken great strides in the alleviation of poverty in Bangladesh and beyond. It has contributed significantly to the empowerment of the poor and of women in particular. BRAC has created 7MM jobs and has a Microfinance membership of 5MM with a repayment rate of 99.49%.

Economic Development Program
- Micro Finance
- Livestock
- Poultry
- Handicraft
- ISP
- Bank
- Agriculture
- Cold Storage

Support

Health & Education Program
- Healthcare
- Schools
- Currently 1.5MM Students
- BRAC University
- Social Development
- Covering a population of 31MM

Empower
A New Business Model for the Public Interest

The structure of bracNet enables profits from the business operations to be distributed to BRAC, an NGO, to fund a number of public service projects and development initiatives.

(Note: Confirmation with tax authorities required at the time of distribution)
The DEFTA-bracNet Model

Building a Next Generation Wireless Network in Bangladesh

- Deployment of advanced technology to provide low-cost and efficient infrastructure

One of the First Deployments of WiMAX in the World

Building a Network that is Low Cost and Highly Efficient
bracNet has completed a WiMAX based wireless network connected by fiber that covers the major metro areas the country.

Serve 15 million people in Dhaka with only 5 base stations
E-Huts:

Bridging the Digital Divide & Promoting Entrepreneurship

- Developed a franchise of digital centers called “e-huts”
- Hybrid internet café/business center catering to individuals, local communities and small businesses
- Offer computer training in addition to internet access
- Over 300 E-Huts to roll-out nationwide

an e-hut outside of Dhaka
Telemedicine and Distance Learning Solution: XVD

- **Low Bit Rate / No Block Noise**
  - Can transmit real-time HD video contents in less than 1Mbps. advantage for users without sufficient bandwidth or to those who desire to lower their cost for purchasing high bandwidth.

- **Scalability**
  - Has seamless coverage for broad range of devices and applications. It covers all areas of video compression technology (such as H. 264, MPEG 2 and VC-1).

- **Clean Technology**
  - Enables a drastic reduction in power consumption. This will enable users to use low spec devices lead to overall lower costs.

* XVD is the only solution for distance education and telemedicine in developing countries *
XVD Newshound

With XVD real-time encoding technology, the production equipment which would normally require a broadcast van, can be compressed to the size of a backpack!

XVD is being used by news stations around the world to gather news!
Using Next Generation Video Technology to Improve Living Standards (1)

**BRAC’s network of Schools and Libraries**
BRAC manages a network of 50,000 schools and over 1,000 libraries in rural areas

**Distance Learning Initiatives Employing XVD Technology**

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Using Next Generation Video Compression Technology to Improve Living Standards (2)

Square Hospitals
(network throughout Bangladesh)

Rural Clinics

XVD State of the art Video Compression Technology

July 23rd -24th 2008: bracNet telemedicine test successful!
bracNet gains acclaim for its approach by the World Bank

In June 2008, the DEFTA bracNet model was recognized by the World Bank as an ideal alternative model for development assistance in the World Bank publication *Development Outreach*. 

Pictured at right is the first page of the June 2008 Article.
Feasibility Studies to Replicate the Model in Africa
AFDP (Alliance Forum Development Programme)  Africa Meeting

December 5th 2008 in Tokyo, Japan

Ambassadors representing the following eight African countries were in attendance for the December 5th meeting: Republic of Botswana, the Democratic Republic of the Congo, Kingdom of Lesotho, the Republic of Malawi, the Republic of Rwanda, the Republic of Senegal, the Republic of Tanzania, and the Republic of Zambia.

Above is a group photo from the meeting from the Africa Meeting.

An article about the meeting was featured in the Saturday, December 20th 2008 Asahi Newspaper edition of Front Runner.
Established in 1985, the Alliance Forum Foundation is a 501(3)(c) non-profit organization based in the United States. In the 1990’s, the organization played a significant role in promoting Japan’s change in industrial structure. Presently, the organization consists of three major divisions: the New Industry Creation Division, Public Interest Capital Research Division, and the Alliance Forum Development Programme (AFDP).

AFDP helped to establish the bracNet project in 2005 in Bangladesh and is currently spearheading an initiative to combat malnutrition on the continent of Africa using Spirulina, and edible algae with an extremely high content of protein.
Alliance Forum Spirulina Project

AFDP Project Started in 2008
Africa has a high prevalence of malnutrition and HIV infection

Source: World Food Programme (WFP)
Source: UNAIDS 2006
Spirulina is often called the ideal source of protein and is the best to tackle malnutrition

What is Spirulina?

- A unique micro-algae (plant) that is green in color and spiral in shape
- Rich in protein, vitamins, and minerals. Moreover, the assimilation of nutrients is 95%. Spirulina’s protein content ranges from 65% to 70% and has an amino acid score of 100, similar to that of chicken eggs and milk
- Its natural habitat is mostly Africa and Latin America, the tropics and subtropics

Growth conditions for Spirulina

1) plenty of sunshine
2) high temperature (water 30°C~35°C)
3) high alkaline and saline water

Comparison with Other Food

<table>
<thead>
<tr>
<th></th>
<th>Spirulina</th>
<th>Meat</th>
<th>Soy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein (%)</td>
<td>65-70%</td>
<td>19.7%</td>
<td>35.5%</td>
</tr>
<tr>
<td>Necessary amount of water for producing 1 kg of protein (t)</td>
<td>2.1</td>
<td>105</td>
<td>9</td>
</tr>
<tr>
<td>Necessary land area for producing 1 kg of protein (1㎡)</td>
<td>0.6</td>
<td>190</td>
<td>16</td>
</tr>
</tbody>
</table>
Effectiveness of Spirulina

*Spirulina is effective for malnutrition and its safety has been confirmed by the World Health Organization*

Spirulina Effect

90 days of Spirulina Feeding

A child suffering from acute malnutrition

Spirulina Safety

WHO in Geneva has confirmed: "Spirulina represents an interesting food for multiple reasons, and it is able to be administered to children without any risk."

Source: WHO, Geneva, Switzerland, June 8th, 1993
PaViDIA
(The Project for Participatory Village Development in Isolated Areas)

**PaViDIA is a capacity building project characterized by its low-costs and participatory method**

<table>
<thead>
<tr>
<th>PaViDIA</th>
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<tr>
<td><strong>Target</strong></td>
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<tr>
<td><strong>Approach</strong></td>
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<tr>
<td><strong>Features of Project</strong></td>
</tr>
<tr>
<td><strong>Merits of Project</strong></td>
</tr>
</tbody>
</table>

* African Millennium Village (AMV)
Source: PaViDIA website
Spirulina Project in Zambia

- Project launched in 2008 with UN ECOSOC IIMSAM

Intergovernmental Institution for the use of Micro-algae Spirulina Against Malnutrition

- Zambia selected among as the first recipient country

Zambia

- Land Area: 752,618 sq. kilometers
- Population: 11.6 million
- Capital: Lusaka
- Average Life Expectancy: 38 years old
- GDP per capita: $1,098
- Percentage living under a dollar a day: 63.8%
- % of children suffering from Malnutrition: 20% (0-5 yrs)
- Adult Literacy Rate: 68%
Zambia Mission (August 11th – 14th)

Lwipa F. Puma, Deputy Minister of Health with the AF/IIMSAM Delegation

Minister of Science, Technology, and Vocational Training Peter U.W. Daka with the AF/IIMSAM Delegation

(From left) A. Nakauchi, IIMSAM Deputy Representative Officer; G. Hara, IIMSAM Ambassador Extraordinary and Plenipotentiary; Deputy Minister Puma, and Ambassador Mitamura

(From left) Ambassador Mitamura, Minister Peter U.W. Daka, IIMSAM Ambassador Hara and Representative Officer Nakauchi
Zambia Mission (August 11th – 14th)

◇ Meeting with the Executive Director of the Maureen Mwanawasa Community Initiative

* About the Maureen Mwanawasa Community Initiative (MMCI): MMCI is an NGO started by the First Lady and wife of President Mwanawasa to improve health/sanitation and education across the country. The Executive Director is the elder sister to the first lady.

◇ Visit to the Monbushi Health Post NPO

About TICO (Tokushima International Cooperation): TICO is an NGO that independently supports populations in Zambia and Cambodia that suffer from the effects of civil conflict, poverty, and hunger. In Zambia, the organization is expanding its rural support in the areas of water, agriculture, health, and education (Director: Osamu Yoshida)

(Above): TICO Monboshi Health Post under construction
(Right) Toilet and Shower constructed for the health post

The Health Post Staff with G. Hara, IIMSAM Ambassador Extraordinary and Plenipotentiary; Miriam J.K. Nkunika, Executive Director, and Ms. Chuumbwe, focal point person

From left) A. Nakauchi, IIMSAM Deputy Representative Officer; G. Hara, IIMSAM Ambassador Extraordinary and Plenipotentiary; Miriam J.K. Nkunika, Executive Director, and Ms. Chuumbwe, focal point person

The Health Post Staff with G. Hara, IIMSAM Ambassador Extraordinary and Plenipotentiary (middle-left) and A. Nakauchi, IIMSAM Deputy Representative Officer (middle right). Pictured as well are: Ms. Yamashita (front row far left) and Ms. Yoshida (back row second from right) both of TICO.
Ministers and Ambassadors from the three countries visited by the AFDP Mission in August (Zambia, Botswana, Mozambique), as well as, the Japanese Ambassador to Zambia addressed the audience during Session I of the Tokyo Roundtable.
Phase I of the Spirulina Project 2008-2010

Selection of Recipient Countries

Procurement of Spirulina

Distribution to recipient countries

UN IIMSAM Japan

Spirulina Producers U.S.A. India Southeast Asia

ALLIANCE FORUM

Cooperating Groups TICO Kaunda Foundation Universities

Corporate Sponsors

Additional Sponsors
Spirulina Cultivation in Kenya
2 year old children suffering from malnutrition
Children at clinic in Kenya

Child Suffering from Malnutrition

Healthy child treated with Spirulina