

“BITS OF FUTURE: FOOD FOR ALL” PROJECT

HYST TECHNOLOGY

**SOLUTIONS FOR FOOD SECURITY
RENEWABLE ENERGY AND
SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES**

SECOND AFRICA DRYLANDS WEEK

N'Djamena, Chad, 25th-29th August, 2014



BITS OF FUTURE: FOOD FOR ALL

STATE OF THE ART

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External Relations



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ITALIAN INSTITUTIONS

The Bits of Future: Food for All project and Hyst technology were presented to several Italian and International Institutions and Organizations, including:

- **The Presidency of the Italian Republic**
- **The Ministry of Cooperation**
- **The Ministry of Economic Development**
- **The Ministry of the Environment**
- **The Ministry of Foreign Affairs**



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INTERNATIONAL ORGANIZATIONS

The prospect of starting an international development program in many countries has led **FAO**, **IFAD** and other international organizations to applaud the project.

Bits of Future was presented to the **World Bank** in a meeting organized by the Office of the Executive Director in Washington, D.C.

Bits of Future: Food for All has also been presented to the Department of Agriculture and Agroindustry of the **African Bank of Development** in Tunis.



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AFRICAN UNION

Her Excellency **Tumusiime Rhoda Peace**, Commissioner for Rural Economy and Agriculture at the AU Commission received **Eng. Pier Paolo Dell'Omo**, President of the *Scienza per Amore* Association and its delegation on 31 July 2014 at the **African Union Commission in Addis Ababa, Ethiopia**. The delegation presented Hyst technology to the Commissioner.



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AFRICAN COUNTRIES

The Bits of Future: Food for All project and Hyst technology were presented to all the African diplomatic representatives to the Quirinal in Italy.

Currently 7 Countries have expressed their official interest in starting pilot installations utilizing Hyst technology within the Bits of Future project: **Senegal, Somalia, Burkina Faso, Cameroon, Rwanda, Burundi, Congo Brazzaville.**

The Association has also met and received acknowledgement of their interest, although not yet official, from other Countries: **Uganda, Ivory Coast, Ghana, Lesotho, Mauritania, Ethiopia, Tanzania, Mozambique, Liberia, Tunisia, Sudan, Nigeria.**



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SCIENTIFIC INSTITUTIONS

In Italy, the scientific institutions that have been involved in this project will collaborate with *Scienza per Amore* and BioHyst for further developments of the technology. They will also cooperate with research institutions of the African countries:

- **ENEA** (*National Agency for New Technologies, Energy and Sustainable Economic Development*)
- **The University of Milan**
- **“La Sapienza” University of Rome**
- **“Tor Vergata” University of Rome**
- **The University of Pisa**
- **The University of Florence**
- **The Campus Biomedico University of Rome**



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HYST PRODUCTS CERTIFICATIONS

The **Italian Ministry of Health and the Ministry of Agricultural, Food and Forestry Policies** have certified the new food products, which are derivatives of the Hyst treatment, as edible and safe and have **authorized their production and marketing**.

The **Ministry of Health** certified Hyst products obtained from by-products of the milling industry as **food supplements**.



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ITALIAN COMPANIES ASSOCIATIONS

Given Hyst's potentially great influence in the Italian economy, many important Italian companies in the fields of food and biofuel follow with interest the project and its development:

- **Confagricoltura** (Italian Association that bring together all associations of the Italian agricultural world and farmers)
- **Unione Petrolifera** (Italian fuel companies association)

ITALIAN ENTREPRENEURS

BioHyst has been contacted by about **150 companies** interested in Hyst technology for its applications in many key sectors of the Italian economy.



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MEDIA AND PRESS PUBLICATIONS

Hyst technology and the Project Bits of Future: Food for All have been the subject of more than 300 Italian and international publications (press, television and radio), including:

Afrikitalia; Le Soleil; Le Matin; Africa Nouvelles; Africa News; Ajafe; Somali MaiTV; Think Innovation; Einewelt; Clean Energy Project; Umwelt Dialog; Innovations Report; Presstext Austria, etc.

Panorama; Sole24ore; Italia Oggi; Mondo Agricolo; Tecnica Molitoria; Rai; Il Sole 24 Ore; Molini d'Italia; Impresa Oggi; Pasta e Pastai; Professional Pasta; Ingegneri; Specchio Economico; Chimici; Agricoltura News; Agro Notizie; Torino Scienza; Canale Energia; Rinnovabili; Imprese Ambiente; Quotidiano Energia; Nature; Scienza e Conoscenza; Agrotecnico; Green Report; Europass; Eco Seven; Cooperazione allo Sviluppo; Zeroemission; Agricoltura Moderna; Nuova Agricoltura; Associazione Italiana Allevatori; CNR Almanacco della Scienza; ICP Portale dell'Industria Chimica;



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LAST GENERATION HYST UNIT

On June 28, 2014, the launch event of a new Hyst unit took place in Mendrisio, Switzerland.

This Unit has been entirely financed by the association *Scienza per Amore* and produced by the Company BioHyst, and represents the last generation due to performance optimization.

Its official launch represents the concrete starting of the international cooperation project Bits of Future: Food for All. In fact, the Hyst unit will be used to process biomass from the African countries.

Diplomatic representatives from ten African countries attended the event (**Benin, Burkina Faso, Burundi, Ivory Cost, Ghana, Liberia, Nigeria, Somalia, Tanzania and Uganda**).



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In September, **biomass tests with the new Hyst unit will continue** at the request of African countries such as Burkina Faso and Somalia.

Waste biomass will be processed to evaluate potentials and to develop dedicated units in order to maximize yield and quality of products.



NEXT STEPS

Our road map proceeds as follows:

Objective A – end of project presentation program

Plan – organization of a meeting dedicated to the project “Bits of Future: Food for All” in an international venue (Rome or Brussels) September/October 2014

- Involvement of Italian and European Institutions
- Involvement of AU, EU, FAO, IFAD, WFP Coordination Institutions
- Involvement of Financial Institutions (World Bank and AfDB)

Objective B – study of biomass from countries already involved in the Project at the Hyst Technology research center

Plan – beginning of the Program of scientific testing with African biomasse

Objective C – definition of the economics of financing the construction of the first pilot projects

Plan – definition of a specific team consisting of economists from countries involved, delegates from WB and AfDB and a BioHyst company staff team, after tests on African biomass have been carried out.

