



Scienza per Amore Association

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**Certifications and scientific evaluations related to Hyst technology
and institutional relations inherent to the cooperation project called
*Bits of Future: Food for All***

- **Ministry of Agriculture, Food and Forestry Policies**, Directorate General for International Politics and the EU: *positive opinion on the production and marketing of wheat flour produced from bran with the Hyst system.* (Prot. No. 0001845 of 18.12.2012)
- **Ministry of Health**, Directorate General for Health and Food Safety and Nutrition: *positive opinion on the production and marketing of wheat flour produced from bran with the Hyst system* (Prot. No. 0042630-P-19/12/2012)
- **Ministry of Health**, Directorate General for Health and Food Safety and Nutrition: *positive opinion on the production and marketing of dietary supplement of vitamin B1, manganese and phosphorus produced from wheat bran with the Hyst system.* (Prot. No. 0012353-P-29/03/2013)
- **La Sapienza University of Rome**, Prof. Giuliana Vinci, Professor of Food Technology and Nutrition in Developing Countries and Food Science and Technology: *"The flour produced with the Hyst process presents those features – plenty of proteins, vitamins and minerals – which are necessary in a product to be used in a food support program in developing countries, since inadequate protein consumption and lack of vitamins and minerals are among the leading causes of death and disability in these countries, especially in children."* (Technical Report of 19.12.2012)
- **University of Milan**, Dr. Luca Malagutti, Professor of Sustainable Animal Husbandry: *"The straw and bran fractions obtained with the BioHyst methodology have a much higher nutritional value than the original starting product."* (Technical Report of 21.04.2011)
- **Catholic University of the Sacred Heart in Piacenza**, Prof. Gianfranco Piva, former Director of the Institute of Food Science and Nutrition, *"Hyst technology allows to improve the nutritional value of raw materials and is able, by separating the various components, to mix them in such a way as to obtain products with new features."* (Conference on "Hyst Technology: Power, Energy, Environment", Piacenza, 15.12.2009)



- **ENEA (National Agency for New Technologies, Energy and Sustainable Economic Development)**, Dr. Vito Pignatelli, Coordinator Technologies Biomass and Bioenergy: *"Very interesting results for the production of biogas from cereal straw subjected to pretreatment with this technology, with production levels that are higher than those obtained from corn silage."* ("European Flour Millers Conference" Rome, 04.05.2012)
- **ENEA (National Agency for New Technologies, Energy and Sustainable Economic Development)**, Dr. Vito Pignatelli, Coordinator Technologies Biomass and Bioenergy: *"Following what was said in previous contacts and upon examination of the technical documentation on your products from the University of Milan and the RES Company of Ravenna, which you have kindly provided, we deem it useful to have samples of cellulosic substrates, such as straw or residues of the milling of cereals, treated with your technology of disaggregation and fractionation of biomass, in order to perform experimental tests on anaerobic digestion and compare the results thus obtained with those available for the same type of substrates subjected to different pretreatments."* (Prot. ENEA/2012/22832/UTRINN-STG of 02.05.2012)
- **Unione Petrolifera (Italian Oil Industry Trade Association)**, Directorate General for International Environmental and Technical Relations: *"On the basis of the preliminary results of the tests carried out on waste agricultural material and the tests carried out by the RES company of Ravenna on biomethanation, and upon receiving a favorable opinion on the potential of this technology from the ENEA Technical Coordinator for Biomass and Energy, Dr. Vito Pignatelli, the Unione Petrolifera and the companies associated with it are strongly interested in verifying the preliminary results obtained with ad hoc experiments to be carried out with road tests."* (Prot. No. 1744 of 17.12.2012)
- **Unione Petrolifera**, Engineer Franco Del Manso, Head of Environmental and Technical Affairs: *"With this technology you can produce a second generation biofuel whose characteristics are fully compatible with the technical requirements of the transport sector. This is why the Unione Petrolifera is interested in the evolution of this technology. [...] We are waiting to be able to contribute to the development of the technology for the energy aspect, which is then intended to support the noblest part, that of food security and the fight against hunger and poverty."* ("Hyst Technology for Food Security," Senate of the Republic, 29.11.2012)
- **Confindustria Energia (Italian Energy Industry Trade Association)**, Dr. Pasquale De Vita, President: *"In the field of biofuels we have recently identified in Hyst technology [...] a very positive response to the need to transform agricultural processing wastes into biogas/biomethane for use in the transport sector. An interest in this technology has also been confirmed by all our member companies during an official presentation of the technology to Unione Petrolifera."* (Rome, 10.12.2012)
- **RES (Reliable Environmental Solutions)**, Dr. Carlo Primante: *"The reduction of VS obtained in the various tests has gradually increased from Sample 1 to Sample 4; a fact which is certainly very interesting because, by examining data in the literature (Hashimoto, Gunaseelan), we do not generally get significant increases in biogas production in wheat straw by reducing the size of the material."* (Technical report on the results of biomethanization tests, April 2011)



- **ASL (Local Health Unit) in Pavia**, Dr. Luigi Camana, consultant of the Public Prosecutor, the original document: *"In conclusion, as noted, the machinery in question (starting from a raw material that already contains a significant amount of starch) is able to concentrate in one of the fractions obtained part of the starch already present in the raw material."* (Report of 01.06.2011)
- **FAO**, Jacques Diouf, former Director-General: *"The BioHyst delegates met with FAO officials on 18 July 2011 to present the HYST technology. FAO's technical experts are liaising with BioHyst and will follow up as appropriate."* (Rome, 19.10.2011)
- **Republic of Burundi**, Laurent Kavakure, Minister of External Relations and International Cooperation: *"The Government of Burundi hereby expresses its keen interest in the installation in Burundi of pilot centers which use Hyst technology within the Project Bits of Future: Food for All, through the support of the World Bank. Following contacts with the Scienza per Amore Association, we have understood and appreciated the capabilities of this technology, which allows you to effectively ensure the transformation and upgrading of biomass to obtain products rich in proteins capable of contributing significantly to covering nutritional deficiencies in humans and animals. It also allows you to meet the energy needs of the population."* (Bujumbura, 19.04.2013)
- **Republic of Congo Brazzaville**, Rigobert Maboundou, Minister of Agriculture and Livestock: *"I have the honor to inform you of the agreement with the Government of the Republic of Congo for testing and developing this technology. The Ministry of Agriculture and Livestock is ready to receive from now on, in Brazzaville, a delegation of your association in order to study concrete forms of cooperation."* (30.04.2013)
- **Republic of Cameroon**, M.me Ananga Messina Clémentine A., Minister of Agriculture and Rural Development: *"I hereby have the honor of informing you of my Government's interest in the Hyst technology. Like other states with insufficient resources, my Government is looking for innovative and sustainable solutions in order to strengthen its food security and meet its growing demand for energy."* (Yaoundé, 25.10.2011)
- **Republic of Burkina Faso**, Laurent Sedogo, the Minister of Agriculture, Water and Fishing Resources, *"I appreciate the development of this revolutionary new technology. Its implementation will allow on the one hand to effectively ensure the transformation and upgrading of biomass and on the other to meet the energy needs of a large part of the rural population, especially in the Sahel, at the same time preserving their environment. This result is the culmination of a major research effort for which the credit goes to all those who have followed this path, so difficult but full of hope for humanity."* (Ouagadougou, 13.09.2010)
- **Republic of Senegal**, Khadim Gueye, Minister of Agriculture: *"This technology, which I had the opportunity to discover during my stay in Rome, shows that the Hyst process is innovative in the treatment of biomass and agro-industrial waste. With this technology it is possible to obtain protein rich products which can contribute substantially to cover nutritional deficiencies in vulnerable people and animals. The Government of Senegal is ready to welcome the project ... "* (Dakar, 23.05.2011)



- **Republic of Senegal**, Moustapha Ndiaye, Special Adviser and Head of Major Projects: *"We have come and we have seen the technology, which at the technical level is interesting. It has a revolutionary way to enhance the use of agricultural waste. It can bring added value to the development of agriculture which today is very important for African economy. It can also contribute to the development of other sectors such as animal husbandry and clean energy. The next step with Senegal can be the start up of a pilot project to use this technology with the products of Senegal."* (07.05.2010)
- **Republic of Somalia**, Dr. Yusuf Mo'allim Amin, Minister of Agriculture, Livestock and Forestry: *"I am writing to appoint Mr. Ahmed Abucar, to represent Transitional Federal Government of the Republic of Somalia, to bring this issue to the attention of the Italian institutions and express our willingness to continue our relationship with company BioHyst and the association "Scienza per l'Amore" for the humanitarian project "Bits of Future: Food for All."* (Mogadishu, 22.08.2011)
- **Republic of Somalia**, Esq. Haji Shukri Sheikh Ahmed, President of the Foreign Affairs Committee for the European Parliament of the Transitional Federal Government of the Somali Republic: *"We therefore confirm our availability to start an experimentation with biomass in Somalia as planned by the humanitarian project "Bits of Future" by Associazione Scienza per l'Amore and BioHyst Italia Srl."* (Rome, 18.05.2011)
- **Consulate of Rwanda in Italy**, Dr. Francesco Alicicco, Honorary Consul: *"I hereby confirm the concrete interest of the Rwandan Government to follow up the technology in question in order to introduce it in the country, as expressed personally to me by the Minister of Agriculture, Hon. Agnes Kalibata, during my recent visit to Kigali."* (Rome, 26.07.2011)
- **Republic of Niger**, Dr. Adamou Chaifou, Minister of Environment, Urban Safety and Sustainable Development: *"I have the honor to inform you that Niger through to the Ministry of Environment, Urban Safety and Sustainable Development, is interested in HYST technology [...] The interest in this technology holds for us a triple advantage [...] My ministry, engaged in the fight against invasive plants and improving the living conditions of rural populations, and believing in the effectiveness of HYST technology, through this letter, manifests its interest in developing a fruitful partnership with your association."* (Niamey, 17/09/2014)