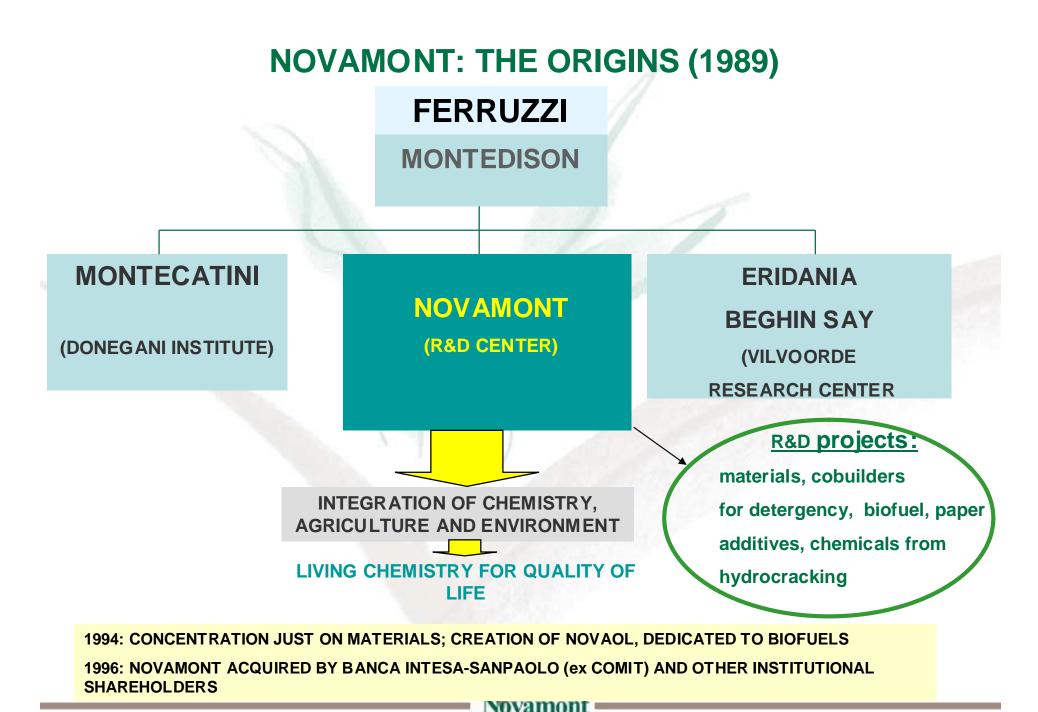
THE CASE OF NOVAMONT

ETP 2010

Working together on societal challanges

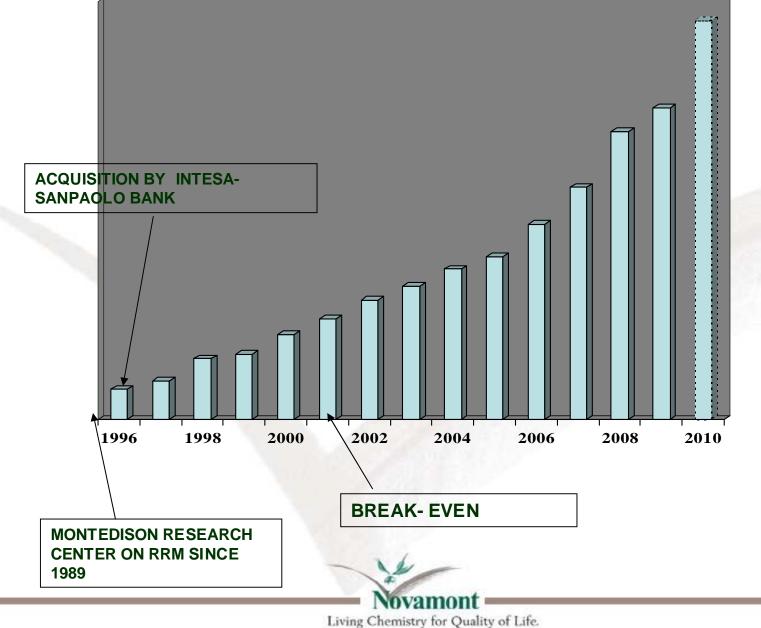
Brussels 11-12 May 2010 Charlemagne Building





NOVAMONT PROFILE

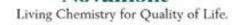
GROWTH TREND



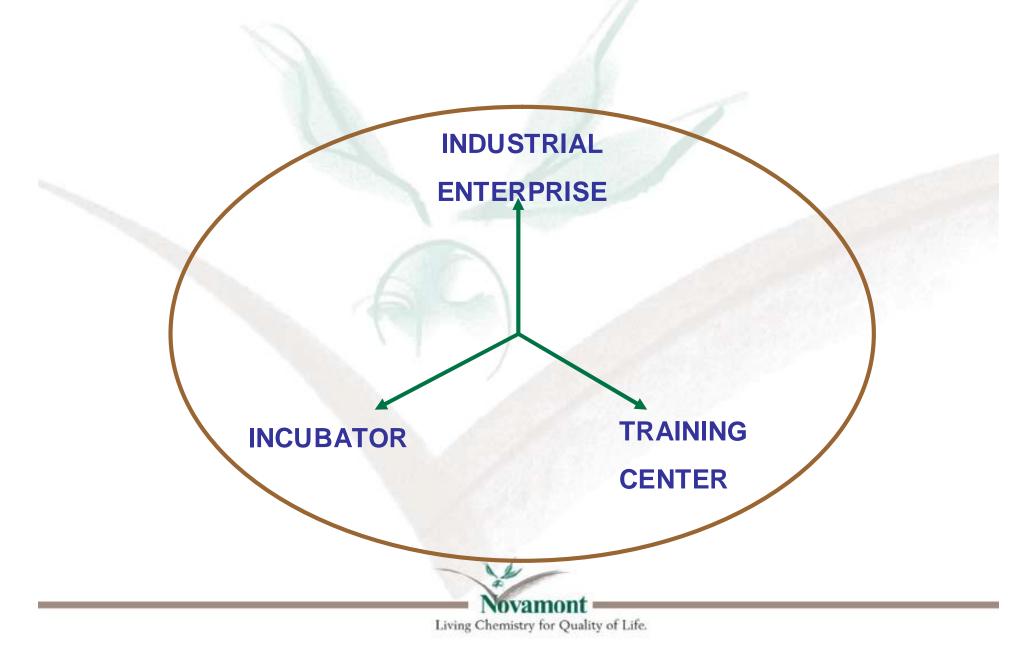
NOVAMONT PROFILE AS AN ENTERPRISE

- PIONIER AND A MARKET LEADER IN THE SECTOR OF BIODEGRADABLE MATERIALS FROM RENEWABLE RESOURCES
- TAILOR-MADE MATERIALS FOR A WIDE RANGE OF INDUSTRIAL APPLICATIONS (Mater-Bi trade-mark)
- **STRONG PATENT PORTFOLIO** (more than 120 articles, >100patents (800 cases), >100MIEuro of investment, 10 awards).
- RESEARCH AND DEVELOPMENT AS THE DRIVING FORCE OF NOVAMONTES INDUSTRIAL DEVELOPMENT (>10% of turnover, more than 30% of the human resources dedicated to research)
- SIGNIFICANT HISTORICAL GROWTH TREND OF REVENUES, WITH STEADY IMPROVEMENT IN OPERATING PERFORMANCE .

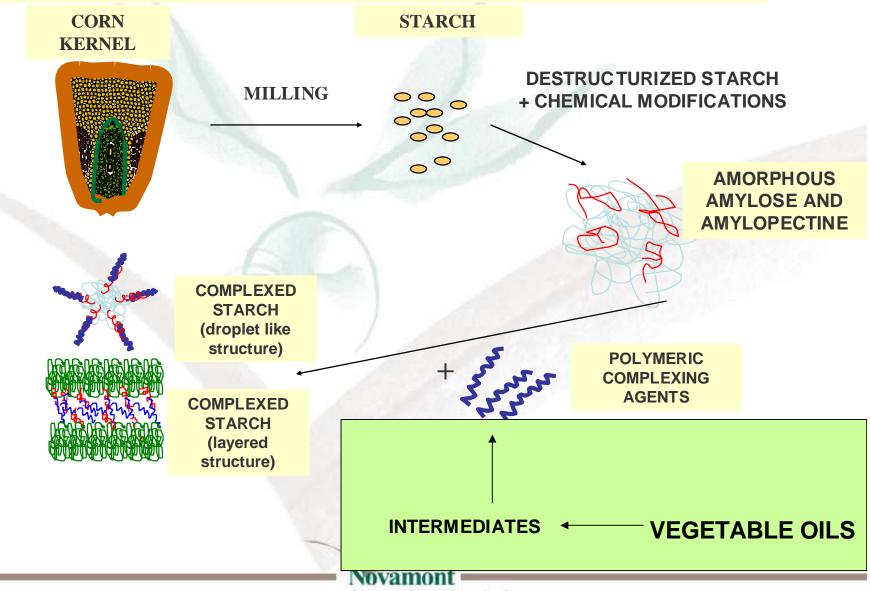
Awarded by EPO and EU as "Inventor of the year 2007" for the 1992 – 2001 patents on bioplastics and industrial achievements



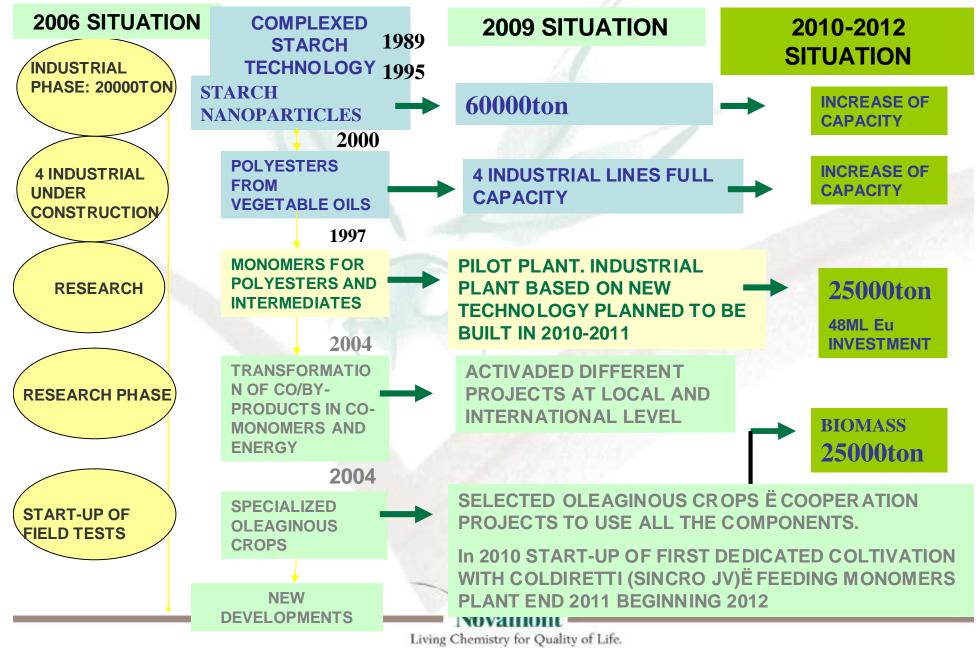
NOVAMONT TODAY

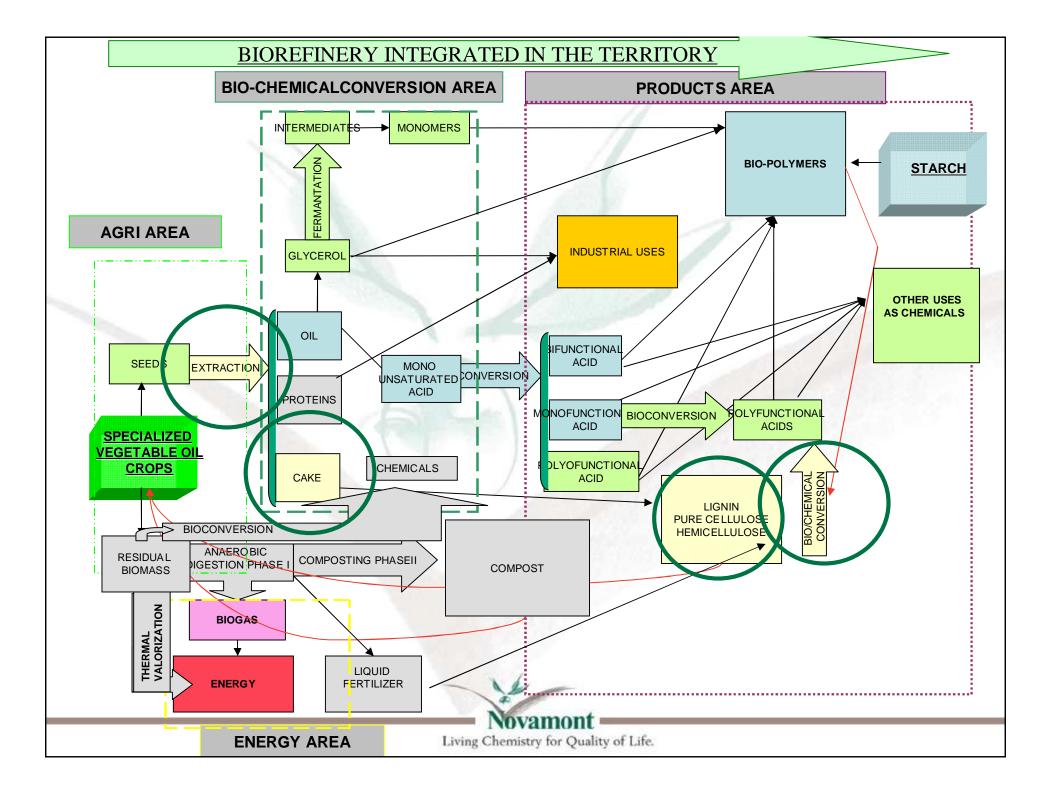


NOVAMONT & STARCH/VEGETABLE OILS STARTING TECHNOLOGY



NOVAMONT RANGE OF TECHNOLOGIES -STATE OF THE ART -





BIOREFINERY : MATER BI PRESENT AND FUTURE GENERATIONS

ALREADY INDUSTRIAL PLANT READY IN 2011							
GENERATI ON	MINIMUM RRM C14%	STARCH	NON-FOOD VEGETABLE OIL DERIVATIVE	MONOME RS FROM BIOMASS	TECHNOLOGIES FOR BIOPLASTICS	CHEMICALS	
1 °	25%	YES	NO	NO	STARCH COMPLEXATION		
2°	40%	YES	YES	NO	"STARCH COMPLEXATION "POLYESTER PRODUCTION		
3°	50%	YES	YES. REDUCED IMPACT	NO	"STARCH COMPLEXATION "POLYESTER PRODUCTION "MONOMER 1	"C9-C13 DIACIDS"C9-C18MONOACIDS"OTHERCHEMICALINTERMEDIATES	
4 °	70%	YES	YES. REDUCED IMPACT	YES	"STARCH COMPLEXATION "POLYESTER PRODUCTION "MONOMER 1 "MONOMER 2	Lignin/phenols Cellulose/sugars Emicellulose/xylo se	
5 °	90%	YES	YES. REDUCED IMPACT	YES	"STARCH COMPLEXATION "POLYESTER PRODUCTION "MONOMER 1 ".MONOMER 2 "MONOMER 3		
	Novamont						

NEXT INDUSTRI AL OBJECTIVE FOR 2010-2011: PRODUCTION OF MONOMERS TIED TO THIRD GENERATION POLYESTERS AND CHEMICAL INTERMEDIATES

- A NEW INVESTMENT IN 2010 OF 48 ML EURO . FIR ST PLANT OF THIS TYPE WITH A CAPACITY OF ABOUT 25000
- SELECTED SITE: A DE-INDUSTRIALIZED CHEMICAL SITE IN CAMPANIA
- "INVESTMENT COVERED BY CAPITAL INCREASE ALREADY DELIBERATED BY SHAREHOLDERS, EU STRUCTURAL FUNDS OF CAMPANIA REGION









INDUSTRIAL ACHIEVEMENTS

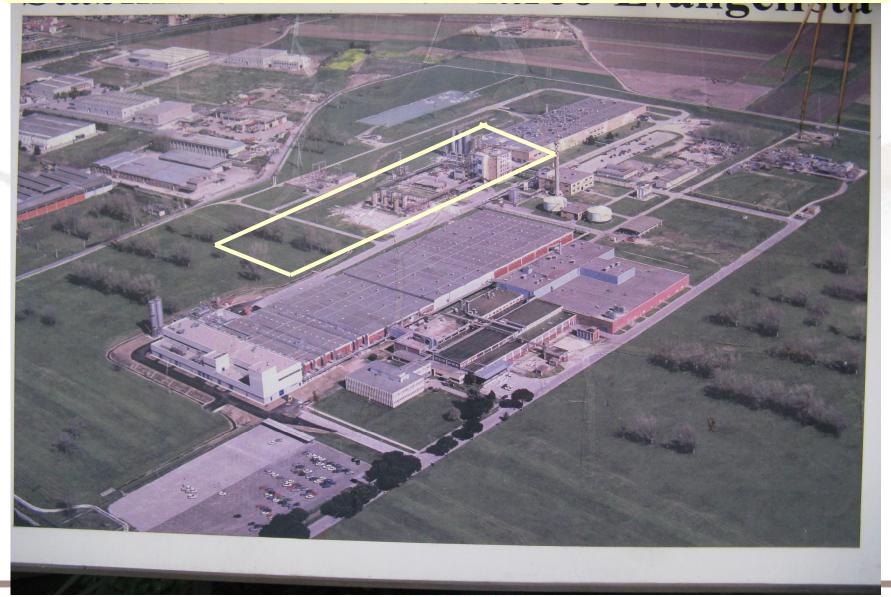
INDUSTRIAL ACTIVATION OF BIOREFINERYES SECOND STEP

RECOVERY OF A DISMISSED CHEMICAL SITE (EX-VINYL CLORIDE PRODUCTION).

. NEW EMPLOYMENT IN THE INDUSTRIAL COMPARTMENT AT LOCAL LEVEL (30% increase in 2007 and 2008)



EX-3M SITE IN CASERTA



Living Chemistry for Quality of Life.

BIOREFINERIES FOR BIOPLASTICS AND CHEMICALS

A SOUND OPPORTUNITY FOR:

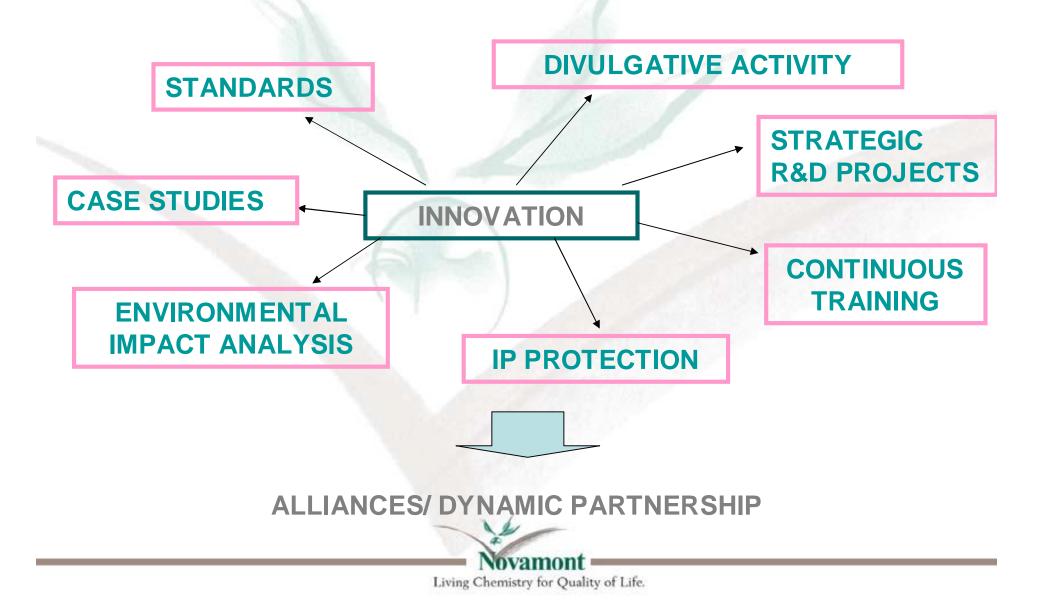
- **RE-INDUSTRIALIZATION OF CHEMICAL SITES IN EUROPE**
- QUALIFIED EMPLOYMENT IN A KNOWLEDGE BASED ENVIRONMENT
- CASE STUDIES OF ECONOMICAL AND ENVIRONMENT SUSTAINABILITY ABLE TO REDISIGN ENTERPRISES, PROMOTE PARTNERSHIPS RE-STARTING FROM LOCAL AREAS



INDUSTRIAL APPLICATIONS OF MATER-BI



-FOR A SYSTEM-BASED ECONOMY-



BIO-BASED PRODUCTS CAN BECOME A POWERFUL DEMONSTRATIVE CASE OF RELEVANT DIMENSIONS FOR SUSTAINABLE DEVELOPMENT AND CULTURAL GROWTH

"REDESIGN ENTIRE APPLICATION SECTORS

"AFFECT THE WAY RAW MATERIALS ARE PRODUCED THROUGH INTEGRATION OF ENTIRE AGRO-INDUSTRIAL CHAINS

MODIFY PRODUCTES USE AND DISPOSAL

EXTEND THE EXPERIMENTAL ACTIVITY OF RESEARCH LABS TO LOCAL AREAS

"DEFINE RELIABLE SYSTEMS STANDARDS





Í THE CHALLANGE OF OUR MILLENNIUM IS IN THE BALANCE BETWEEN THE TECHNICAL MEANS THAT HUMANITY POSSESSES AND THE WISDOM IN HOW WE WILL MAKE USE OF THEMÎ



Umberto Colombo

A real sign of sustainable development.

