

MY WAY

MY FIRST 40 YEARS OF
WORK/STUDY/RESEARCH/EXPERIENCES/MISTAKES TO START A
CHERISHED DREAM, A WARNING TO THOSE WHO WANT TO USE THE
OTHERS WITH AT THEIR DISCRETION AND MY HAND HELD OUT TO
THOSE WHO WORK AND ACT ETHICALLY



ANTONIO BERTOLOTTO

Born in Scarnafigi (CN) on 25.10.1953

I am a former Salesian pupil who graduated from junior secondary school with difficulty as boarder for 4 years at the Istituto Salesiano Valdocco in Turin, with a three-year period devoted to the artistic speciality of photomechanics. I am an entrepreneur who started as researcher and self-taught inventor, specialized in the energetic and material exploitation of biomasses, waste, non-toxic and non-noxious liquid and solid waste and all of it in order to contribute to God's project for creation, nowadays physically and morally polluted by a consumer and individualist exacerbation.

1965+1968

Four years at the Salesian boarding school of Valdocco (Turin), repeating the junior secondary school first year. At school, I was completely absent. I did not understand anything. My thoughts were always focused on commerce and cattle-farming only. Quite often, at night I woke up at 03.00-04.00. For me, that was the time to leave for the market. After two escape attempts, the third escape was the decision of Modesto (my dear late father) to keep me at home by agreeing on a blessed pass with the then director of Valdocco, Don Biancotti. Salesian education matched the family one: "The Church and Work – Good morals and social qualities – Willingness and Generosity – Dialogue and no stick – turn the other cheek just once – never take advantage on anything and be able to renounce – Equality with parity and freedom. Often, I have been considered a popular revolutionary or a pacifist depending on the specific subject. I am in favour of rules to be obeyed by honest people, those who try to be clever in order not to pay any charge and fools; only with the rules and their observance we will be equal with equal rights.

1968+1987

When I was 15 years old, I started working with my family, which has been in the Piedmontese cattle business for three generations. My father Modesto bought me a yellow bicycle "Bianchi" and told me: "...you are so hopeless at school. I want to see if you are able to earn your living in commerce. You must not buy any head of cattle in our zone of Saluzzo-Savigliano. Go to the area between the main roads Saluzzo-Torino and Saluzzo-Pinerolo. This is a free area for us and you can say that your name is Bertolotto, son of Modesto, brother of Tunin and Fredo. If you don't buy any head of cattle, do not come home for lunch. I'll accept you at dinner and to sleep at home and it will be myself to wake up you in the morning". Those were three terrible months. Each day, I used to visit an average of 30-40 farmhouses in the Municipalities of Cardé Moretta – Villafranca Piemonte – Vigone – Cavour – Pinerolo - Luserna San Giovanni – Bagnolo – Barge – Revello. Every now and then, depressed, I used to have lunch at my maternal grandmother's in Saluzzo.

When I went back home in the evening, Modesto greeted me by asking "alura cu las catà encoi (what have you bought today)?". I lowered my head and went on. During the previous summer holidays, he had trained me by taking me with him to buy cattle in the countryside and the markets. The only thought of becoming "so important" allowed me to get through this education, which gave me a few and clear sets of rules that did and still do some good. I have always been struck by Modesto's morality. For example, he thought me:

- never to despise with low offers the heads of cattle being negotiated;
- not to buy when farmers offered a too low price for the head of cattle. but correct them tactfully;
- drugs and doctors have to be paid to allow the State to save money in favour of those who cannot pay for them;
- while talking to the farmers, not to express myself in political terms and respect all thoughts and, above all, respect allies, in particular the French, because we had invaded their territory and we had lost the war;
- to express myself with a community spirit without any distinction of family and race.

I could not buy any cattle for two main reasons:

1. The animal sight evaluation, because the Piedmontese breed (excluding animals for slaughter) is evaluated by sight on the basis of the morphology of the animal, whose value increases depending on its particular shape and characteristics, which can determine an optimum genetic future in terms of yield in kilos-meat-milk-breeding-adaptation to pastures and stabling. It all had to be understood at a glance, together with the animal health and the value estimation of its owner.
2. The owner's request was always high, well above market price, because almost all of them used to sell their animals to a dealer they can trust and I still had to create my own customers. They found themselves approached by a "garsunot" (boy) on a bicycle who, introducing himself, asked them "leve de bestie da vendi?" (Have you got any animals to sell?). The first two or three times, they used to say no, giving me just the time to see the dust produced by stopping my bicycle disperse. After the third time on the same week day, the ice was broken and it was difficult for them to refuse to invite me to the cattleshed or the pasture at the sight of my smile and the way I used to introduce myself, which, if I recall it now, must have been "verament piasus" (really nice).

I had to create a personal and flexible tactics to adapt to the individual subjects. The most important thing was making them invite you to see the animals and, there, starting heatedly answering their many curiosities, alternating questions and trying to introduce the real purpose of the meeting almost as a marginal aspect, so that when they offered a price I had already transmitted to them several more favourable inputs about me.

At the end of September 1968, I bought my first animal, a Piedmontese Fassone heifer. I bought it from the Garsino di Cardé brothers for £. 67,000 plus £ 200 as a tip for their sister. After about one month, I began buying six-seven animals per week, that by April 1969 started settling around 40-60 animals per week, until arriving to a hundred animals per week by the first months of 1970. This trend went on until mid 1977, continuing at the end of 1978 until 1985 in a reduced form by 50%. In a few years, I acquired many loyal customers. With most of them, there was a real friendship. For them, I was not only a dealer they could trust, but also a point of reference, information and advices for several and confidential things. I built a power based on a shared community of ideas, good intentions and hard work and I had my feet firmly on the ground. In January 1969, there was the souped up light motorcycle Zigolo-Guzzi 78 cc, later substituted by the Gilera 125 for my 16th birthday (October 1969). There was any difference between summer and winter. With the bad weather or when it snowed, I used to protect myself with an oilcloth outfit that I wore over my long johns, woollen sweater, boots, crash helmet and went on! My biggest satisfaction was to go back home whenever I wanted for lunch and, especially in the evening, be able to tell Modesto, with the same enthusiasm with which today my children tell me a cartoon, how many animals I had bought and from whom, together with due comments on shapes-values and a prediction on the customers to whom they could be sold. Modesto never congratulated me on it, though, for a second, I could read in his eyes his pride and satisfaction. Almost always he dismissed and killed my enthusiasm by telling me "ee uguma" (let's see them). He lived by the rule of "love him but never show it" and was mostly right.

This commercial activity took place each week with the following calendar:

- On Sunday morning, negotiations outside the Church of Cavour. The farmers who saw me invited me to purchase the animals on sale, stating the type of the same. Some of them came to take the money for the animals sold the week before. I was always ready to greet them and chat with a group of customers, offering and having several cups of coffee and glasses of white wine, without ignoring my customers' daughters who passed along and whose eyes met mine.....never missed a Sunday from 1968 to 1977 and from 1978 to 1985.
- On Monday morning, I used to leave at 6.00 am to purchase the animals negotiated on Sunday in Cavour. I had lunch at my customers' or at Pierin's, my agent in Cavour. The purchases ended late in the evening around 09.00-10.00 pm.
- In the summer, from April to September, a period when the activity decreased by 50%, on Monday I used to go to the Modena market, leaving home at 1 am in order to be able to enter the market at around 6.00 am and buy crossbreeds before the 8.00 am opening of the

market, because Modena dealers started selling the so called “complete bar” (consisting of cross white and black animals) from 8.00 am. I used to leave Modena at around 2.00 – 3.00 pm to go and purchase the animals already negotiated on Sunday in Cavour. This period was particularly difficult. I used to sell those crossbreeds together with French calves to industrial breeders of fatted calves (white meat of caged animals bred with powdered milk only). In the evening, before coming back home, I used to visit some countrygirl.

On Tuesday, I used to leave with my lorry at 4.00 am to load the animals purchased on Monday and went back home at around 12.00 am. I sold more than 50% of Piedmontese animals to the breeders/farmers of the hilly region who produced the famous Piedmontese calf of Alba. It was an exhausting day, with some thirty buyers who from 12.00 am to 6.00 – 8.00 pm alternated between the cattlesheds and the kitchen with handshakes, stories, comments, salami and dolcetto. Many of these customers from the Langhe region loaded a maximum of 3 tied animals in the bonnet of their car, while, the next day, I used to deliver the animals at the house of the customers who bought more than three. I started to carry the animals on the lorry when I was 18 years old and had the driving licence C; previously, it was Modesto who carried the animals after the negotiations in Savigliano. At about 10.00 am we used to go to Pagno to pick up Min, our helper, and go back home at around 6.00 pm. These years, the home afternoon market was much more reduced.

- On Wednesday, the call was for 3.00 am. The animals left from the Tuesday home market were tied and loaded with the “head-bottom” technique on the lorries. At about 5.00 am we left for the market of Carmagnola, where we sold everything from 6.00 to 10.00 am. It was quite difficult, because each head of cattle had to be showed twice or three times to the Langhe purchasers and, therefore, tied, untied and positioned. Those who do not know what means tying a 60-120 kg calf by laying, pinioning and tying it in less than a minute and a half and repeating it 4-5 consecutive hours may consider continuously lifting a moving and living load. At about 10.00 am, we used to leave Carmagnola to deliver the animals sold on Tuesday and Wednesday morning to the breeders/farmers from the Langhe, have lunch at customers’, go back home at about 6.00 pm and, then, right to bed until Thursday.
- On Thursday morning at about 8.00 am, I used to leave to purchase the cows and bulls for slaughter already negotiated on Sunday in Cavour. The late afternoon and the evening were devoted to my only entertainment, that is, going out with the countrygirl who was my girlfriend in that place and that time.
- On Friday morning at 4.00 am, I used to leave with my lorry to load cows and bulls and, at about 7.00 am, unload the animals in the market of Moncalieri. At about 10.00 they were all sold to butchers. In

the afternoon, Modesto and I drew up the accounts.

- On Saturday morning, negotiations in Saluzzo with purchase and resale of heifers of Piedmontese breed in the market.

1970+1978

At the age of 17, I started trading French calves in the markets of Bourg en Bresse, Agén, Saint Cristophe, Saint Coin; I used to carry out this business every fifteen days for two days and almost three nights, having great problems with Modesto, because on those days our normal activity remained vacant.

1971+1978

At the age of 18, I started an additional activity: the industrial breeding of fatted calves (white meat) starting from 18 animals in Pagno di Saluzzo at my first bailor of cattle in agistment's, on parole, and reaching more than 3,000 animals (caged fatted calves with a 5 month cycle) in three years. In 1978, this activity gave birth to the company [AL.BE.SA](#) — Allevamenti Bertolotto Sanati – with registered agistment agreements. This kind of breeding changed me, making me develop quite materialistic distorted morals. At that time, as a hobby, I attended for two years a pilot course at the aerodrome of Levaldigi.

1975

At the age of 22, I launched a project of industrial close cycle cattle breeding with 2000 animals (Piedmontese breed and Cherolaise/Sardinian crossbreed), called [AL.BE.NO](#) Srl. The company purpose was the production of oxen from the Piedmontese breed and baby beef from crossbreeds. The structures were thermodynamic, that is, characterized by a process that allowed to keep power at its maximum, reducing the cost per kilo meat produced (insulation + air + sanitization). The process involved saving straw by using rubber/natural rubber litters, with a subsequent production of liquid faeces that generated the MESF patent study and setting up.

The close cycle extended from brood cows to feeding with old meadow fodder and weed, self-produced flock cereals and mixed legumes. The cycle was closed with the recycling of liquid faeces, producing power, water and organic fertilizers with earthworms. All this took the shape of the MESF and MESEFO patents.

1977+78

At the age of 24, on bad terms with my father because I had understood that it was much more profitable to keep the animals in order to exploit faeces with earthworms and power instead of making H2O meat, I decided to emigrate to Columbus, USA, because of the Ohio University Beef Cow Calf Specialist Extension. I worked as a baker's boy at an industrial bakery in Columbus owned by Mr Mike Audino, now a dear friend of mine, in return for wash, ironing, board and lodging plus \$ 80 per week. Those months were nice and hard. Later

on, while crossing 35 American states for three months, I visited several farms and agro-industries. This period in the US changed me still further, cooling me down through large analyses on who I was and what I could have done with my life. And then, I had a deep crisis of identity.

1978

Once got back from the USA, I started building the first production plant of organic fertilizers from industrial and zootechnical biomasses with earthworms (through the company CICLO Srl working with liquid sewage and solid waste, which included also all the waste from my family cattle farms). "CICLO" processed approximately 60 m³/d of organic sewage and approximately 20 ton/d of organic solid waste. The company built composting plants in Spain, Germany and Belgium. The French company CICLO, with registered office in Monte Carlo, worked under licence in France. CICLO Spagna, with registered office in Murcia, worked under licence in Spain.

Until 1985, CICLO worked on several researches and developed the MESF process thanks to experiments carried out with different kinds of waste. The works were followed for the Faculty of Agriculture of the University of Turin directly by Professor Guido Sasso (former rector) at the laboratory of Grudiasco, which tested the fertility index of the different organic fertilizers produced.

1978

Start of the activity of the company Studio pH aimed at designing and building industrial cattle, pig, chicken and rabbit farms characterized by the energetic recycling from the animal heat with more Kmeat and less fodder units. With lots of realizations in collaboration with R1MU LUFTUNG TECHNIC of Kenisbrung, Baviera, we took engineering into cattlesheds.

1978

Building of a plant for the anaerobic digestion of manure, with the production of biogas/electric and thermal energy at the farm BIOLATTO in Racconigi (CN) with the use of liquid cattle manure.

1979+1979

Start up of a research in collaboration with the Russian plant specialist Dr. VLADI aimed at producing microcultures from biocoenosis.

1978+1983

Start up of the fattening of Sardinian cows with thaw in the mountain pasture of Bardonecchia- Susa. This too was a nice experience. I was in Gallura, a region of Sardinia, with my wife, *Compare* (godfather) and *Comare* (godmather). This experience gave birth to PANU Srl, a company that managed the recovery of 360 Sardinian head of cattle stolen by some Calabrians. Together with my friend Giovanni Panu, I

acted as Judicial tutor and this was another nice adventure.

1982

At the age of 28, I got married. The wedding ceremony was exhausting, as a reward for other people's weddings, dinner parties and commercial trust. The party was celebrated with friends and customers of my several activities. We were 530 at lunch, 270 at dinner and 72 at the lunch of the following day. And all this took place at home at the Villaggio della Fonte with our products. I used to feel that my thoughts and actions were different from those of many of my peers, in particular from those who had the opportunity to study. They came out from the didactic University, while I came out from the practical one. Quite often I found it difficult to associate with them. They used to talk like a book to give themselves airs, talking about sport, fashion, politics, other people's identities and art, throwing their weight about and, this way, looking for an identity of their own that could put them on one of the several social levels; for me it was a predicament, they were trying to prove to be somebody by using other people mostly known by them through reading and studying, while I was trying to rid myself of my identity that had made me an old young man.

1978/1979/1980/1981/1982/1983/1984/1985

CICLO and Studio pH started working in the European market by attending the International Shows of Verona, Lyons and Paris, with the subsequent activation of composting plants in France, Spain and Germany and application studies for Lebanon, Tunisia and the Ivory Coast.

1980

Start of experiments on urban and industrial biomasses with the production of vermicompost with earthworms and bacterial enzymatic bioactivators. The world was laughing at me.

1981

Start of the culture of bacterial enzymatic bioactivators with induced cloning of moulds, fungi and lichens. And all this was made secretly, because when one talks about invisible things in which nobody believes, people laugh at you but when they see the resulting turnover they dive into it.

1983/1984/1985

Study and basic and applied research on agronomic systems for the fertilization of mineralized soils with fertilizers produced from agro-industrial and zootechnical biomasses in collaboration with the University of Turin Agriculture Faculty at the centre of Grugliasco with Professor Sasso, who urged me to go on with the research, giving me the necessary moral dignity that convinced me of the importance and significance of my intuitions.

1983/1984/1985

Building of several vermiculture composting plants in France, Spain and Germany, with the scientific support of the French National Institute for Agricultural Research (INRA), the University of Monaco, Professor Lorenz and Professor Sasso of the University of Turin Agriculture Faculty.

1986

Forced closing down for a financial crisis of all the [AL.BE.SA](#) – [AL.BE.NO](#) farming activities and, therefore, end of the Studio pH and CICLO activities. It was a total failure, but I was deeply aware that I had at my disposal the most advanced technology for the exploitation of biomasses. I must admit now that I was a bit of an oddball.

1985+88

Study and research tours in Tunisia and the Ivory Coast, studies for Chad and Lebanon with the University of Peace to which I belonged through LVIA-CARITAS of Cuneo. We attended the Mont Pelliciere NORTH-SOUTH Show in France together with Father Benevelli.

1986

In order to fill the gap of the general didactic culture and looking for myself, I devoted myself to reading and studying with enthusiasm. This new research emerged thanks to the end of the above mentioned activities, in particular because of the failure of the zootechnical industry in the Cuneo region and the closing down of AL.BE.NO, which did not have any financial support for its twenty-year advance to produce H²O meat without muscle. Moving from my house in Scarnafigi to my wife's house in Vignolo, I could devote myself to my total moral and cultural regeneration. I felt old and useless, but, at the same time, a new competitive urge was emerging inside me.

'86/87/88

Three-year course of Theology – Dogmatics – Moral philosophy at the Istituto Teologico Diocesano of Cuneo.

Studies of Chemistry – Biology - Agriculture.

Rearrangement of my experiences and researches.

A period of spiritual rebirth that was immediately quite useful during my mission in Latin America, where there were plenty of opportunities to make money quickly.

1985

Establishment of the company MARCOPOLO B.O.S. with the purpose of engineering the systems for the exploitation of agriculture, industrial and urban waste and, therefore, creating a didactic point of my experiences and intuitions.

1986

Application for the MESF (Marcopolo Ecotone System Flaking) patent.
Course of Sanitary Engineering at the Politecnico di Milano.

1987

Due to the impossibility to carry out applied research, I decided to move to Latin America, having an important point of reference in Bolivia.

1988

As a skilled ecologist, I took part in the works of the Bolivian National Senate for the law on the environment.

1988

Same tasks for the Chamber of Deputies with the Bolivian Environment Committee.

1988+98

Courses of environment and recycling at the René Moreno Faculty of Engineering of Santa Cruz and minor schools.

1987/1988/1989/1990

Research and production of organic fertilizers from biomasses in Latin America (Bolivia, Peru, Ecuador, Brazil, Paraguay). In the meantime, I promoted the MESUR project in Santa Cruz, Bolivia and sold a 28 MD plant, which has never been built because they asked me to pay a bribe. How shameful! I had established a consortium of 14 Italian companies, such as PIAGGIO-SAME Trattori, NUOVO PIGNONE, MAC PRESSE and MERLO. All of them were ready to follow me and had put their trust in me. The project was supposed to create one thousand jobs and Italy could acquire global prestige.

I could have overcome the problem of the lack of financial support for MAE by entering into partnership with some South American entrepreneurs, but, this way, I had to change my morals and today I would belong to the ECOMAFIA.

1989

Intervention at the 5th International Conference on waste recycling and exploitation in Rome. I immediately realized that the Italian sector was under the control of building contractors and lorry drivers together with incompetent politicians and public administrators. With anger, I started realizing that the Italian situation was terrible in comparison to the American one and my previous experiences of being able to transfer hundreds of billions on parole.

'88/89/90/91

Studies of feasibility for the production of organic fertilizers from urban biomasses in Chad, the Philippines (Cebu), North Yemen and South Africa.

1989

Speaker at the Meeting on the faeces recycling with production of organic fertilizers at the FIERAGRICOLA of Verona.

1988

Establishment of the company CENTRO RICERCHE MARCOPOLO ENGINEERING S.r.l. - SISTEMI ECOLOGICI with the purpose of building and managing waste recycling plants with the production of energy, fertilizers, raw and recycled materials and, in particular, creating new jobs, preserving and recovering the environment. In my heart, I wanted to establish environment industries in order to regulate the industrial development between extreme consumerism and protection of the environment, and all this as a challenge to the corrupt and ignorant world that managed the environment and as evidence of my true love for the weak, who must always obey other people's decisions. Among the weakest things, there was also the environment, whose reaction, on the other hand, produces disasters, like victims of oppression who become revolutionaries.

1993

Acquisition of the company G.I.A. (Gruppo Ingegneristico Applicativo). The late-departed Mr Bianchi, an engineer of the old Italian guard, favoured me and entrusted me with the continuity and development of his research on the production of energy from biogas. Mr Bianchi thought me the engineering of the energetic recycling of biogas from dumps. Together, we built the plants of Bassano del Grappa and Mazzano, which were sold and, together with the Salmour one, were the first three Italian plants of that kind.

1993

Building and management of the first CIPE 6/92 plant in Salmour for the production of electric energy through the exploitation of the AIMERI/ITALGAS dump; since then, I did not sell these plants any more but built them.

1993/94/95/96/97

Training of seven students of engineering for their degree thesis at the Faculty of Engineering of the universities of Rome and Genoa and the Politecnico of Turin.

1993

Application for the MES-B&B (Marcopolo Ecotone System Baling Sewage Landfill and Cycling Digestion for Bioenergetics and Mining Recovery) European patent.

1993

Application for the MESF-S (Marcopolo Ecotone System Flaking Small) patent.

1993

Speaker at the National Conference on "Air pollution and reducing techniques" at the University of Padua.

1993

Application for the MESBG-ALT (Marcopolo Ecotone System Bio Gas Automatic Lighting on Torch) patent.

1994

Establishment of the company MARCOPOLO UTILITIES Srl

1994

Speaker at the National Conference on "Air pollution and reducing techniques" at the University of Padua.

1995

Establishment of the company MARCOPOLO WPRI POLAND

1995

Application for the MESEFO (Marcopolo Ecotone System Energy Fertilizer Organic) European patent.

1996

Application for the MESEN (Marcopolo Ecotone System Enzyveba) European patent.

1997

Acquisition of the company COLUMBIA Srl and transformation of the same into COLOMBO AMBIENTE Srl in 1998.

1998

Speaker at the National Conference on energy from alternative sources at the University of Padua.

1999

Application for the MESF patent.

1999+2005

Building and management of about forty bio electric power plants in Italy, with more than 120 employees and a consolidated annual turnover for the next fifteen years of Euro 30 million, with a growth by 25-35% each year.

2001+2005

Since 2001, perceiving a new sensitivity and new market opportunities in the field of renewable energies, Gruppo Marcopolo has embarked on a programme of diversification in the production of energy from the alternative sources activated twenty years ago, such as:

- (MESBG-EG) landfill biogas and biomasses, (50Mw installed);
- (MESAD) biogas and biomasses from liquid sewage and agriculture and zootechnic waste (10 Mw expected);
- (MESEFO) biomasses and biogas from the humid fraction of urban and industrial waste (10 Mw expected).

Among the possible choices, the Group has completed the scenery of

renewable energies with wind energy, which, together with the previous ones, is regarded as one of the most suitable to contribute to the fulfilment of the Italian Kyoto protocol commitments (reduction of greenhouse gas emissions) and the least dangerous for the environment (by adopting all the necessary measures).

Thus, it was developed an ambitious “Wind Plan” whose objective is to install plants for a total power of 1,000 MW within 10-15 years (by 2010-2015). The Plan consists of a first phase (500 MW), focused on the Italian territory, and a second phase (following the first one, for further 500 MW in collaboration with other groups), to be implemented in the Mediterranean area.

The development of the Wind Plan has some peculiarities that make it different from many other similar plans already started or starting in the Italian territory.

First of all, Gruppo Marcopolo has created a network of local collaborators working at their premises, both for the location of sites and the following development activities of individual projects, granting then a first real and actual economic benefit to the territory and transparency with reference to local governments.

2002

Application for 3 patents on hydrocarbon degrading basidiomycete fungi, in collaboration with Mrs Cristina Varese and Mrs Antonella Anastasi of the University of Turin Vegetable Biology Department.

2003

The encounter between the founders Antonio Bertolotto – a self-taught researcher and founder of MARCOPOLO ENVIRONMENTAL GROUP, as well as inventor of MARCOPOLO patents on the energetic exploitation of biomasses – and Professor Vittorio Camilla – an agriculture graduate and manager of the Ministry of Agriculture who has been contributing for years to the development, diffusion and protection of Italian PDOs and RDOs – gave origin to TEFF S.r.l., whose main peculiarity is the intention to create a network able to make it easier the contact between the many mature manufacturers and users/consumers who want to preserve and defend, especially for future generations, all the original and typical elements that the Italian territory has been able to preserve and hand down.

A “place”, therefore, where those who have quality of life for all at heart can “meet” fruitfully.

Still in 2003, the following divisions were activated:

- MESEFO: "anaerobic digestion of the humid fraction of urban waste"
- MESAD: "anaerobic digestion of agriculture and industrial liquid sewage"
- MESEOL: "wind plants"

- MESIDRO: "hydroelectric plant"
- MESCOG: "co-generation plants"

2004

On 12th July 2004 MARCOPOLO ENGINEERING Srl became SpA

2003-2005

Application for 6 patents. The first one concerning plants for the purification and processing of dump percolate (commercial name: MES-WP), the second one concerning devices for the captation of biogas from dumps (commercial name: MES-BELL), the third one regarding devices for the processing of biogas and the relevant technique (commercial name: MES-APB), the fourth one regarding a robot for spraying litters (commercial name: MES-ROZO), the fifth one regarding a device for the controlled release of active substances for the sanitization of environments susceptible of containing organic material subject to deterioration (commercial name: MES-STRIP),

2006

Application for a patent on a plant for the purification of liquid sewage and the relevant technique (commercial name: MESF – BE). Application for 3 patents on the use of specific fungi to process sewage containing colouring agents, in collaboration with Mrs Cristina Varese and Mrs Valeria Prigione of the University of Turin Vegetable Biology Department.

2007

Application for 2 patents. The first one regarding a system and technique for the transport and management of waste, the second one concerning a device for air (commercial name: BIO-AIR).

2009

At the end of February, the fund AMBER enters in the capital MARCOPOLO ECOLOGICAL SYSTEMS ENGINEERING SpA with 30% consolidating the important launch of diversification and development industrial group.

Property of AMBER and his staff are marvellous people, not only they believed in the possibility of MARCOPOLO as Group but they share my ideas and visions of healthy business.

Same month I lose my mother, she left us in silence sleeping in the hospital admitted for great pains in the trigeminal nerve. She leaves me with all those qualities and duties that I will manage and perform like she wanted.

In September MARCOPOLO ENGINEERING SpA buys 100% about TERRA Srl capital, bringing home all science and power to do in the agro-micro energy.

2010

It was undoubtedly a great year: a Vignolo, July 5, there was the inauguration of the first plant in the world to enhance the biomass of livestock sector in a closed cycle October 30 at Rialto (Sv), however, is inaugurated its first wind farm ... two great moments of celebration and contentment.

On November 14, I attended the XII Auction World White Truffle of Alba aggiudicandomi three beautiful specimens. Later I had the honor and pleasure to donate three major characters of the human scenario, political and economic, a tuber I delivered to Pope Benedict XVI as a thank you for your commitment to protecting the planet, the other 's I handed it to Luca Zaia, President of the Veneto region, because the nose would lead to economic aid to the entire Veneto region recently devastated by a violent flood, and the third I offered to Michele Ferrero to thank the considerable economic boost that , him with his work, gave my land.

2011

With great pleasure I am on 8 March in Milan to participate in the panel discussion entitled "Entrepreneurs meet Investors: business case and innovative projects" at the conference organized by the Italian Stock Exchange and GSE "Scenarios for development and investment opportunities".

My ideas for the Protection of the area, have found two good Partner: Legambiente national and the Club of Strategic Partners at the University of Gastronomic Sciences.

On June 24, I get the Rotary Foundation of Rotary International, the Rotary Club of Italy through the Maritime Alps to which I belong, the title of Paul Harris Fellow in appreciation and gratitude for the tangible and significant contribution in promoting a better mutual understanding and friendly relations between the peoples of the world.

On August 11 deposit my new patent titled: "A system for the capture and / or the 'reduction of harmful emissions into the atmosphere from a plant in the event of an accident, especially a nuclear power plant", specifically for a project / process patent budget and implementation, referred to herein as "mai piu 'only Chernobyl", to catch and block leakage of chemical and radioactive dust, to bioprocessing and bioriadattamento of micro / macrofauna - flora and attivita'vegetali / animals of the land within of 50 km, before and after being hit by radiation leaking from nuclear power plants. "

2012

July 6, 2012 is published the new Ministerial Decree that regulates the incentives on alternative and renewable energy. This Decree establishes the beginning of the crisis in the green energy sector, already started for another year before with huge delays in payments of the energy produced and fed into the grid. This decree did not make any difference between the energies of the supply chain (Landfill and zooagrobiomasse closed loop) that destroy a toxic hazard (biogas) to make energy and natural energies (wind - photovoltaic - hydroelectric power - geothermal - tides) using perhaps the natural energy to make, but not remediation and disinquinano nothing.

On 30 October 2012 the company was founded Sonita Srl, after more than 4 years of study and research in the automotive world. Sonita a Business Plan for the construction of the first EEELCAR in the world: that is a VEHICLE ELETTRICIO "ECONOMIC, ECOLOGICAL, electrocardiogram" TO TRANSPORT PEOPLE, SMALL ANIMALS AND PRODUCTS. The idea has been realized thanks to the member of the Notary Sonita Luca Orengo who believed and invested with me in the project. ([Www.sonita.it](http://www.sonita.it)). The Project is based on hard data and verifiable and is ambitious to face a new ecological thinking and global levels. A unique idea of its kind that combines a major industrial project attentive to general working with a green philosophy that has no precedent, and that in a sincere attempt to close a circle eco-who until now has not in terms of comparison world.

2013

The Movement was born on May 1, 2013 SOSESI: Smile / Serenity / Security, in a historical period / economic / social crisis of great spiritual world also. This movement was born with the intention of bringing my experiences to Italian nationals and to collect their thoughts, moods and states of mind. The departure took place in Cuneo, in Piazza Galimberti, at 10:00 on May 1: Labor Day and Month of Our Lady. What I expect is a country which believes that we can better and you pull up their sleeves to do so. ([Www.sosesi.org](http://www.sosesi.org))

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Nowadays, I'm happily married with two children, god-fearing and director of Gruppo Marcopolo, whose references and activities can be

found in the documents “Referenze MARCOPOLO ENVIRONMENTAL GROUP” and on the website www.marcopolo-e.com.

Today, at the age of 56 and with an experience of 40 eventful years working in several fields in Italy and abroad, I see half of the world to be bought and I get depressed. The same happens to me when I turn and see the other half to be sold. Unfortunately, what sickens me is that, in several initiatives, I loose and have to give up because of the sharks and/or corrupted people who impose the laws of retaliation. But I do not pay!!! The road is still nice and long in the company of many good memories, experiences, new plans, friends, collaborators and reliable professionals and with my desire to go on building and creating and seeing in the world my factories work, exploiting waste thanks to earthworms and power and giving a real social and environmental contribution, also for the joy and benefit of those who trusted me and all those I did not know and maybe will never know, but that would have grazed with me too.

I have said my factories, because this is the only way to come out of the Italian bribe system. It is be more difficult, but with my own technology I’m sure I will succeed!!!

I thank God and am happy to belong to that group of Italians:

- who, in spite of the opportunities to establish businesses abroad, remain in Italy where the establishment of companies is much more difficult than abroad;
- who employ other people without exploiting public money to study and carry out their plans;
- who prefer to renounce certain opportunities in order not to betray their ethics and morals;
- who create industrial systems and plans;
- who have created and will create thousands of jobs in Italy;
- who pay taxes;
- who have fought and will fight to have a united, strong and indivisible Italy;
- who feel love, sympathy and forgiveness for the others;
- who support Italy by creating jobs and wealth and minimize the use of public funds for treatments and studies. The only State school I have attended was the primary one and I did the same for my children, who after the primary school went to private schools for a fee and for this reason I think that private schools should not be financed by the State but by the resources of those attending them, favouring this way the weak;
- who collaborate with the police force to bring ethics and morals into their activities, by giving the right inputs, foiling frauds, attacks on people health and environment pollution;
- who do not pay bribes;
- who in their travels and stays abroad support Italy as a kind-hearted country full of talent, industriousness and hospitality and not as we have been depicted by movie directors and some English lobbies: barbarians, mafiosi and ignorant. In our country, people are not killed like dogs and

families are not ruined because of supremacy, jealousy or spite. I have done things to spite other people and have been spited, but I have paid and made other people pay (forgiving them), respecting other people's lives. In Italy and abroad, I have known many Italians from all the regions of my country who proved me that we are a great people and, by sheer chance, they agree with me. I'm fed up with this lousy way to have to bear this situation and I am ready to devote myself to free the country from mafiosi, corrupted people, exploiters and those who pretend to be good people and use those who deviate from accepted standards to create deviants. God gave all to us. It's up to us to recreate community in the difference, with true love and kindness, but everything with equal rules to be obeyed by all.

Up with Italy! Up with MARCOPOLO ENVIRONMENTAL GROUP!

PATENTS ANTONIO BERTOLOTTI:

- Brevetto n° 6732686 del 21 aprile 1986, inventore Antonio Bertolotto; MESF: MARCOPOLO Ecotone System Flaking.
- Brevetto n° TO 93 A000023 del 18 gennaio 1993, inventore Antonio Bertolotto; MESB&B: MARCOPOLO Ecotone System Baling sewage landfill and cycling digestion for Bioenergetics and mining recovery.
- Brevetto n° TO93 A000270 del 21 aprile 1993, inventore Antonio Bertolotto; MESF-S: MARCOPOLO Ecotone System Flaking Small.
- Brevetto n° TO 93 A 000400 del 4 giugno 1993, inventore Antonio Bertolotto; MESBG-ALT: MARCOPOLO Ecotone System BioGas Automatic Lighting on Torch.
- Brevetto n° TO 95 A 000352 del 3 maggio 1995, inventore Antonio Bertolotto; MESEFO: MARCOPOLO Ecotone System Energy Fertilizer Organic.
- Brevetto n° TO 96 A 000538 del 25 giugno 1996, inventore Antonio Bertolotto; MESEN: MARCOPOLO Ecotone System Enzyveba.
- Brevetto n° TO99A000651 del 23 luglio 1999, inventore Antonio Bertolotto; MESF: MARCOPOLO Ecotone System Flaking.
- Brevetto n° TO 2002 A001 085 del 13 dic. 2002, inventore Antonio Bertolotto; Fungo ligninolitico.
- Brevetto n° TO 2002 A001086 del 13 dic. 2002, inventore Antonio Bertolotto; Fungo ligninolitico.
- Brevetto n° TO 2002 A 000 187 del 13 dic. 2002, inventore Antonio Bertolotto; Fungo ligninolitico *Phylum Basidiomycota*.
- Brevetto n° TO2003A000558 del 22 luglio 2003, inventore Antonio Bertolotto; MES-WP: MARCOPOLO Ecotone System Flaking Water Purification.
- Brevetto n° TO2005A000541 del 29 luglio 2005, inventore Antonio Bertolotto; MES-APB: MARCOPOLO Ecotone System Aspiration & Purification Biogas.

- Brevetto n° TO2005A000540 del 29 luglio 2005, inventore Antonio Bertolotto; MESBELL: MARCOPOLO Ecotone System Bioactivation & Energization of Landfill Leachate.
- Brevetto n° TO2005A000538 del 29 luglio 2005, inventore Antonio Bertolotto; MES-ROZO: MARCOPOLO Ecotone System Robot Zootechnica.
- Brevetto n° TO2005A000760 del 26 ottobre 2005, inventore Antonio Bertolotto; MES-STRIP: MARCOPOLO Ecotone System. Dispositivo a rilascio controllato di sostanze attive per la sanitizzazione di ambienti suscettibili di contenere materiale organico putrescibile.
- Brevetto n° PCT/IT2006/000848 del 14 dicembre 2006, inventore Antonio Bertolotto; MESF-BE: MARCOPOLO Ecotone System Flaking Biogas Energy.
- Brevetto n° TO2006A000806 del 13 nov. 2006, inventore Antonio Bertolotto; Uso di cuninghamella elegans Lendner in procedimenti per il trattamento di reflui contenenti coloranti.
- Brevetto n° TO2006A000808 del 13 nov. 2006, inventore Antonio Bertolotto; Uso di Rhizopus stolonifer (Ehrrenerg) Vuillemin in procedimenti per il trattamento di reflui contenenti colorati.
- Brevetto n° TO2006A000810 del 13 nov. 2006, inventore Antonio Bertolotto; Uso di Rhizomucor pusillus (Lindt) Schipper in procedimenti per il trattamento di reflui contenenti coloranti.
- Brevetto n° PCT/IT2007/000199 del 19 marzo 2007, inventore Antonio Bertolotto; TELEFERICA: Sistema aereo e metodo per il trasporto e la gestione dei rifiuti.
- Brevetto n° TO2007A000696 del 2 ottobre 2007, inventore Antonio Bertolotto; BIOAIR: MARCOPOLO Ecotone System Sistema pulitore per ambienti di città.
- Brevetto n° TO2008A000784 del 24 ottobre 2008, inventore Antonio Bertolotto; MES-BIMOADL: MARCOPOLO Ecotone System BI:bioinoculo, M: movimento, O: ossidativo, A: anossico, D: dinamico, L: lunare.
- Brevetto n° TO2009A000008 del 9 gennaio 2009, inventore Antonio Bertolotto; MESF-BEM1: MARCOPOLO Ecotone System Flaking Biogas Energy.
- Brevetto n° TO2009A000006 del 9 gennaio 2009, inventore Antonio Bertolotto; MESF-BEM2: MARCOPOLO Ecotone System Flaking Biogas Energy.
- Brevetto n° TO2009A000445 del 11 giugno 2009, inventore Antonio Bertolotto; MESF-BEM3: MARCOPOLO Ecotone System Flaking Biogas Energy.
- Brevetto depositato con Numero Domanda TO2011A000763; CCIAA di deposito: TORINO; Data di deposito: 11/08/2011.
Titolo: “Sistema per la cattura e/o l’ abbattimento di emissioni nocive in atmosfera da un impianto in caso di incidente, particolarmente un impianto nucleare.