



water is life !



OUR 21st CENTURY,
THE CENTURY OF WATER



OUR SURVIVAL DEPENDS ON THE QUALITY OF OUR WATER

- Water covers 72% of the surface of our planet, but less than 3% of this water is fresh water.
 - During the 20th century, the population was multiplied by 3 but water consumption was multiplied by 7.
- World-wide, one person in five doesn't have access to drinkable water.
 - The water layers contain 97% of the fresh water available. According to experts, the increasing use of the water layers would exhaust these natural reserves within the next 25 years.
- More than half the lakes and rivers in Europe and North America are severely polluted.
- By 2050, 4.2 billion people (more than 45% of the world's population) will be living in countries that will not be able to guarantee their day-to-day needs in water.

CURRENT WATER
TREATMENT METHODS
ARE OBSOLETE

TOO EXPENSIVE, INAPPROPRIATE, DIFFICULT TO IMPLEMENT

METHODS	ADVANTAGES	DISADVANTAGES
Chlorine	Kills bacteria – Remanent effect - Water conservation	Toxic chemical product - Complex dosing - Unpleasant tastes and smells Evaporation through heat, loss of effectiveness
Softeners	Only an anti-scaling effect	Does not produce drinking water - Eliminates calcium in water
Ozone	Kills bacteria No chemical product	No remanence, conservation not possible Complex to install and use
Reverse Osmosis	Filters out bacteria Can be used to desalinate water	Expensive installation and operation - Complex to use Gives demineralised water
Active carbon	Eliminates unpleasant tastes and smells, chlorine and heavy metals	Extremely limited life cycle due to the proliferation of bacteria System not completely safe
UV Lamp	Kills bacteria No chemical product	No remanence, conservation not possible Only works on very clear water
Filters	Eliminates matter in suspension (MIS)	No specific effect other than the action on the matter in suspension



AN ADVANCED
TECHNOLOGY:
CARTIS®



CREATION OF A REMANENT ANTI-BACTERIA POWER

- Highly effective against micro-pollution, pesticides, by-products of oxidation, detergents and all substances dissolved in water.
- Eliminates unpleasant tastes and smells in the water and organic matter, as well as any traces of chlorine, heavy metals (mercury, lead, etc.), cyanide, etc.
- Increases the proportion of « dissolved oxygen » in the water.
 - Small pressure drops and long filtering cycles with considerable resistance to abrasion and a high volumetric adsorption capability.
- Does not affect the quality of the water treated.





**International Industrial and Marketing Group,
specialising in the production and distribution
of point of consumption water treatment systems.**

**CARTIS[®] IS THE ONLY KNOWN ALTERNATIVE
TO CHLORINE**

**CARTIS[®] IS A TOTALLY ECOLOGICAL
AND NATURAL PROCESS**



APPLICATIONS
ARE MANY
AND VARIED



- Drinking water (communities, private houses, public fountains, etc.)
 - Swimming pools (sea water or fresh water)
 - Agriculture and Hydroponics (greenhouse and soil-free cultures)
- Aquaculture (shrimps and fish), Fish-food, Aquariums, etc., (sea water or fresh water)
 - Poultry and animal breeding
 - Industrial use and Water recycling
 - Air conditioning
- Medicine, Dentistry, Pharmacy and Surgery (disinfection, surgical instruments, etc.)
 - Research, High Technologies and Nuclear
- Military, Space (space station, long space missions), Underwater stations,
 - etc.



EXCEPTIONAL
RESULTS



ELIMINATES THE BACTERIA THAT NO CHEMICAL PRODUCT CAN TREAT

- Eliminates *Legionella Pneumophila* that causes « Legionnaire's sickness »
 - Eliminates *Pseudomonas Salacearum* that causes withering of greenhouse and soil-free cultures.

RETAINS AQUEOUS SUBSTANCES DISSOLVED IN WATER

- The only system that operates without any chemical product and that naturally purifies and regenerates swimming pool water, without changing it.

TREATS SEA WATER

- Without desalinating or affecting pool water, eliminates bacteria and pollution, enabling the breeding of fish and shrimps without any chemical additives or antibiotics, increasing production by a factor of ten.



ADVANCED TECHNOLOGY

**BASED ON "NANO TECHNOLOGY"*
AND "PLASMA TECHNOLOGY"****

*Pure silver metal atom deposit, in nano-metric thickness layers (6N)

**Reaction obtained in a plasma reactor.



A TECHNOLOGY DEVELOPED WITH THE ACTIVE PARTICIPATION OF:

- **The CNRS**

(National Scientific Research Centre), France.

- **The CRT**

(Plasma-Laser Technical Research Centre), France.

- **The GREMI**

(Ionised Media Energies Research Group), France.

- **The Orleans Science University, France.**



A PRIZE-WINNING,
VALIDATED
AND PATENTED
TECHNOLOGY



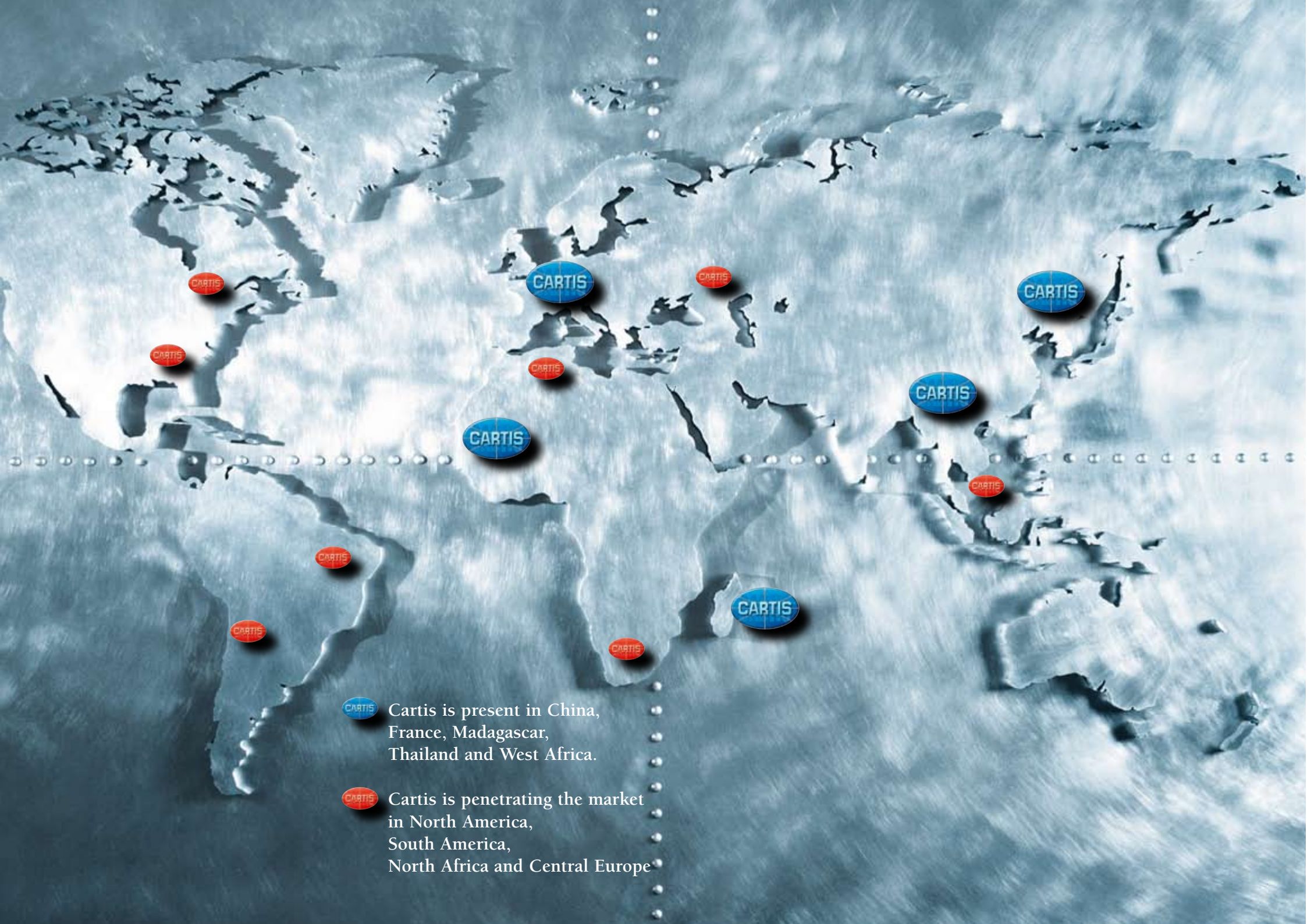
TECHNOLOGY & RESULTS VALIDATED BY :


- The CAMR (Centre for Applied Microbiology and Research), Salisbury, UK.
 - The IPM (Pasteur Institute, Madagascar).
- The Peking Water Distribution Company Water Analysis Centre, China.
 - The LSEH (Lyon Hygiene Environment Health Laboratory), France.
 - The CWA (Central Water Authority), Republic of Mauritius, etc.


PRIZE AWARDED BY : The ANVAR (National Research Valorising Agency), France.
INTERNATIONAL PATENT N° PCT/IB98/00610.



A WORLD-WIDE
AMBITION



 Cartis is present in China, France, Madagascar, Thailand and West Africa.

 Cartis is penetrating the market in North America, South America, North Africa and Central Europe



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