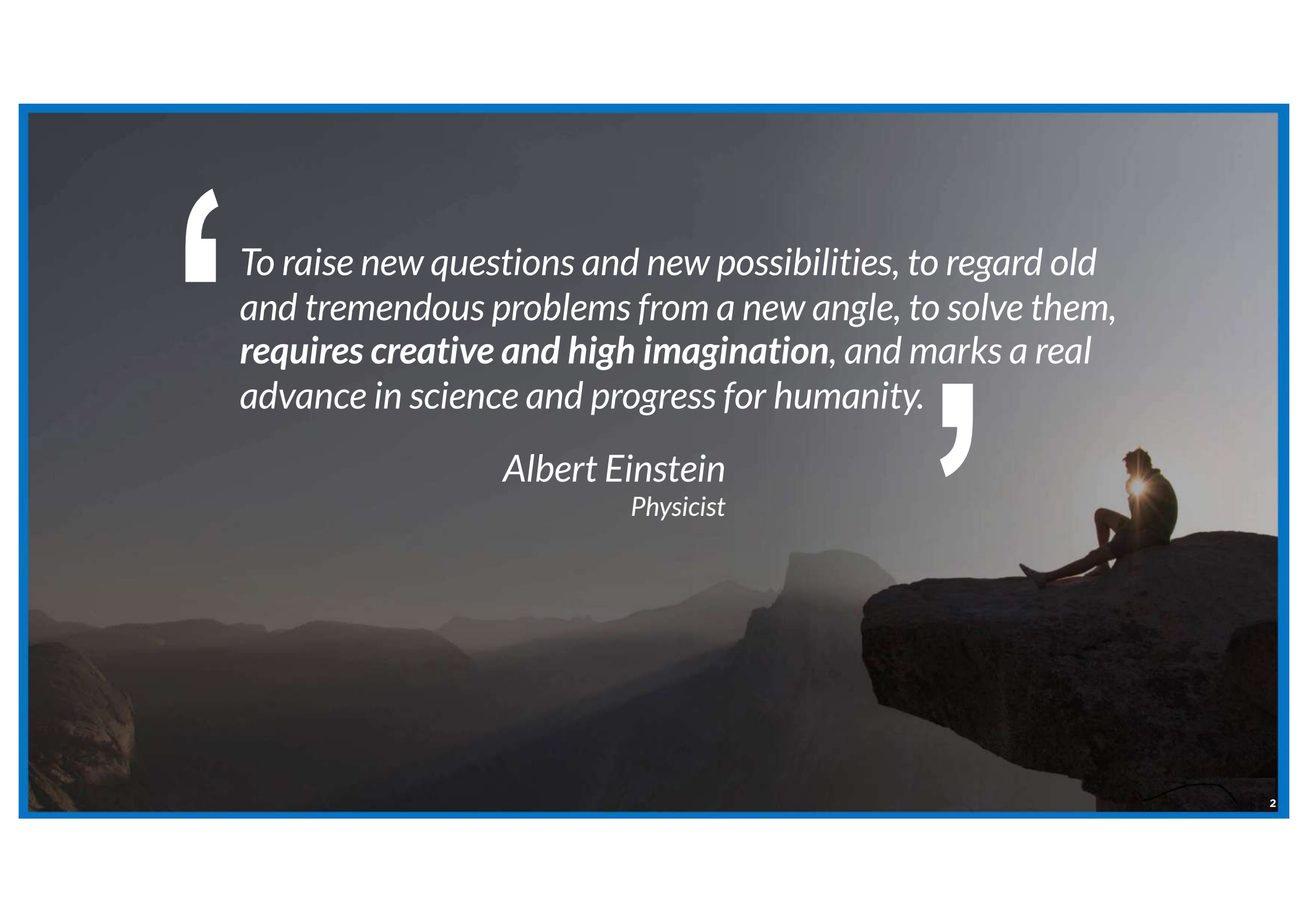




## AN OVERVIEW OF OUR SOCIAL AND BUSINESS INITIATIVE

A person is sitting on a dark, rocky cliff edge, looking out over a vast, hazy landscape under a soft, golden sky. The person is silhouetted against the light, with a bright sun flare behind them. The landscape consists of rolling hills and valleys, all shrouded in a thick mist or haze. The overall mood is contemplative and serene.

*To raise new questions and new possibilities, to regard old and tremendous problems from a new angle, to solve them, **requires creative and high imagination**, and marks a real advance in science and progress for humanity.*

*Albert Einstein*  
*Physicist*

WE CLEAN THE AMBIENT AIR WE ALL BREATHE,  
CREATING HEALTHIER, SAFER, AND MORE ENERGY-EFFICIENT PLACES TO LIVE  
AND WORK. EVERYWHERE.



**ISCLEANAIR®**  
BREATHE YOUR LIFE

**apq**  
AIR POLLUTION  
ABATEMENT

**ANSWERS**

**QUESTIONS**



**CLEAN AIR FOR ALL,  
AT THE SERVICE OF PEOPLE AND  
THE ENVIRONMENT**

## EMISSIONS CREATE SIGNIFICANT AND WIDE IMPLICATIONS AND IMPACTS



OVER  
**92%**

**OF THE WORLD'S  
POPULATION BREATHS  
UNSAFE AIR**  
(indoor & outdoor)

**56%**

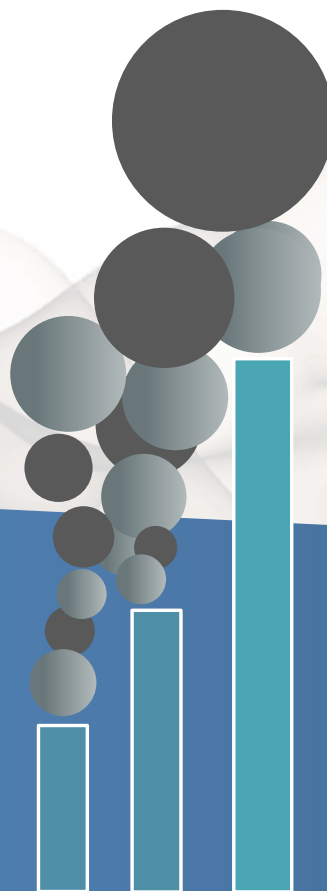
**LIVE IN URBAN AREAS**  
(projected 68 -70% by  
2050)

**80% to  
90%**

**TIME IS SPENT  
INDOOR**

**\$5  
Trillion**

**EQUIVALENT  
YEARLY COSTS**  
(death, diseases, severe  
events implications and  
productivity losses)



Every year, around  
**8+ MILLION  
PREMATURE  
DEATHS**

are due to exposure to  
both **OUTDOOR** and  
**INDOOR** air pollution

Source:  
OECD and WHO, 2015 - 2022



**EVERYONE OF US TAKES OVER THAN 20.000 BREATHS A DAY, MAINLY INDOOR**

## APA SOLUTIONS ARE BORN TO BE APPLIED EVERYWHERE

- APA technology received prominent recognition, many times, for its versatility and clear supremacy and leadership, within the ambient air cleaning/cleantech sector
- APA is designed to operate excellently at the surface (ground) level where people live, work and breathe, with extreme scalability and modularity
- The distributed strategy (patented) enables flexible installations of bespoke specific solutions and systems, in practice everywhere there are needs
- APA special solutions can also serve the Air Treatment Units (HVAC/ATUs) in buildings and similar spaces, and even on some sensitive points of emission, improving the site's performance and the related "Total Cost of Ownership" (TCO)





## MARKET SIZE: ENORMOUS OPPORTUNITIES TO SOCIAL AND BUSINESS VALUE

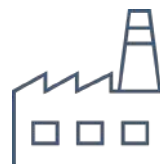
### Air Purification Market \*

**TAM of approx. (\$ 400 billion by 2027)**

**SAM of approx. (\$ 40 billion UK + EU mainly)**

**SOM A (= 1.4 - 2% of approx. \$ 400 million)**

Clean Air Industries and Workplaces



Clean Air Urban Spaces / Intelligent Cities



Clean Air Buildings and Indoors



### Indoor Virus Detection Market \*\*

**TAM of approx. (\$ 200 billion by 2023)**

**SAM of approx. (\$ 30 billion UK + EU mainly)**

**SOM B (= 3% of approx. \$ 900 million)**

### EXPECTED MARKET GROWTH

**32.4% Annual Growth Rate (2019 - 2027)**

\* Commercial actions combined, under vertical strategies and scalable and flexible models

\*\* NOTE: in many places, APA technology is proposed mainly as an integration, not a substitution

Sensitivity analysis and estimations are originally expressed in £/GBP  
(Source: CPC - London and other research centres and industrial entities)

### IN HIGH DEMAND

**Post-COVID-19 restart, to build real healthier and safer places**



Clean Air Interior Spaces



## THE APA SOLUTIONS TO TRULY BREATHE PURIFIED AND HEALTHIER AIR

**We created a strongly patented, certified, intelligent, modular and flexible multiservice technology to realize safer and healthier places where we live and work (and breathe), a better quality of life and a truly sustainable environment**



**BAT** BEST  
AVAILABLE  
TECHNOLOGY  
EU IPCC 2008/1/CE



✓ **200+ NATURE-BASED  
INSTALLATIONS  
(simple water)**

✓ **NO FILTERS**

✓ **GREAT EFFICACY DEMONSTRATED**

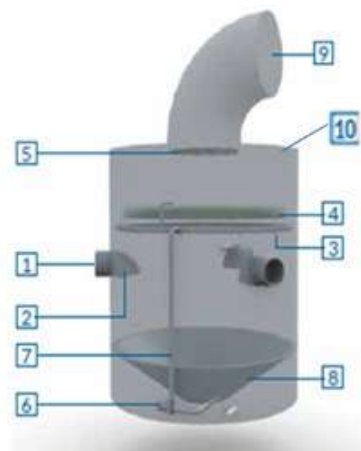
✓ **OPERATING at the SURFACE LEVEL,  
DISTRIBUTED,  
both INDOOR and OUTDOOR**

✓ **CLEANER AIR FASTEST,  
in DAYS or WEEKS**

✓ **STRONGLY PATENTED and CERTIFIED,  
even as PPE  
(Protection and Prevention Equipments)**



## APA TECHNOLOGY STRUCTURE



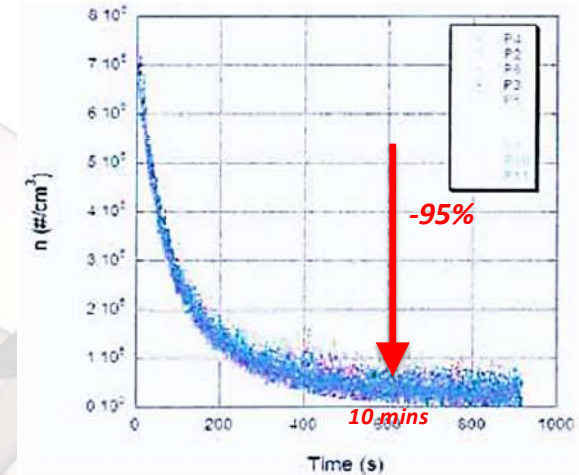
### Legend

- 1 Polluted air entrance
- 2 Venturi scrubber
- 3 Spray nozzles
- 4 Deposition stack
- 5 Fan
- 6 Water pump
- 7 Water recirculation
- 8 Washing water tank
- 9 Purified air exit
- 10 Electro-magnetic field UV-X

### Performance with Ultra-fine particles ( $PM_{0.5}$ ) (size range 10.8 nm - 523 nm, 11 tests, 900 secs each)



Experimental path of Technology Qualification of APA technology  
CNR - Istituto Motori  
National Research Center - Motor Institute

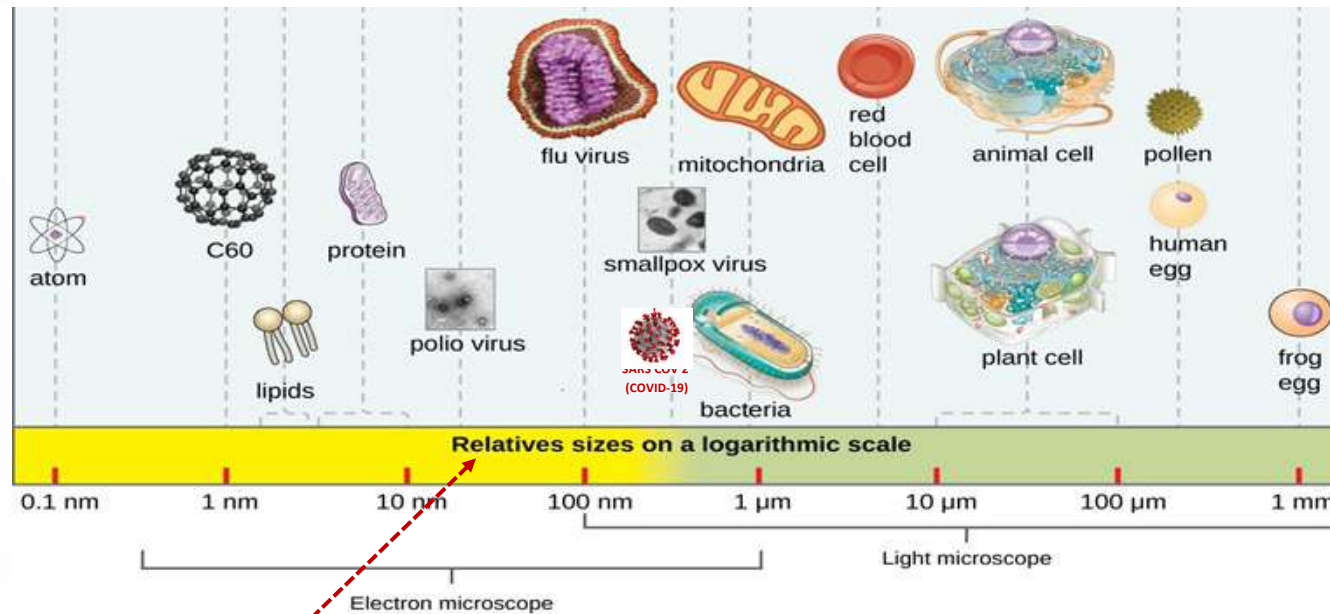


**APA effectively removes nano-particles,  
viruses and harmful microorganisms**





## CAPABILITIES TO TRAP AND DETECT VIRUSES IN APA WATER



**APA**  
AIR POLLUTION  
ABATEMENT  
**PURIFY  
AT THIS LEVEL**

APA, filterless and water-based, is very effective in eliminating air pollutants, dangerous substances and elements and eliminates as low as 20nm PM size (PM<sub>0.02</sub>), in accordance with National Research Center - STEMS Institute and RINA Services certifications



**ITALIAN MINISTRY OF HEALTH**  
**DOSSIER n.1967999 - JUNE 2020**

We are working to certify specifically also the capabilities to detect viruses' presence in the space of implementations, systematically or in real-time

Since APA is based on the use of simple water and mechanical and physical processes, in addition with the electromagnetic fields UV in the case of needs, it reduces significantly the risks of viruses and bacteria contamination spread (by abating effectively the nano-particles that transport the microorganisms responsible for the contamination, in practice the spread accelerator of risk of infections)

## MANY PATENTS OF INVENTIONS GRANTED

### EUROPEAN PATENT



Network of complex systems for the environmental purification and method for network control  
(WO 2014072921 A1) IT0001414214 - TECH 001

Method and system for the mix of gas and liquids to collect compounds  
(WO 2014072922 A1) IT0001414215 - TECH 002

Method and system for the collection-deposition and split of the chemical fluids  
(PCT/IB2014/064464) IT0001419728 - TECH 006



## OUR PATENTS ALREADY GRANTED

- **TECH 002 – EP – ITA, UK, GER, FR, SPAIN**  
(January 2021)
- **TECH 002 and TECH 006 – U.S.A.**  
(November 2017 and January 2019)
- **TECH 002 and TECH 006 – CHINA**  
(June 2018 and May 2019)
- **TECH 002 and TECH 006 – INDIA**  
(October 2019 and January 2021)
- **TECH 001 and TECH 002 – MEXICO**  
(April 2018 and July 2019)
- **TECH 001, TECH 002, and TECH 006 – RUSSIA**  
(July 2019, March 2018, and July 2019)
- **TECH 006 – ITA**  
(WO May 2014 and EPO October 2020)
- **TECH 007 (utility model «Flower pot») - ITA**  
(July 2020)

## GREAT INTERNATIONAL QUALIFICATIONS (MAIN)





## MILESTONES AND TRACTION

15+  
qualified  
peer  
recognitions

24 +  
awards

30+ main deployments  
and programs worldwide  
2016 - 2023

To date, a number of 100+ additional installations are planned,  
mainly in cooperation with large corporates and business  
partners

UK, 2019

IT (HQ), 2015

HK, 2019

3 main locations worldwide (2 + planned)

200+ APA  
installations  
totally  
(As Is and To Be)

12+ main  
pipeline  
initiatives

9+  
business and  
value-chain  
partners

Raised  
€ 8 + M  
(Including  
2.5 Equity)

PROMINENT  
OPEN INNOVATION  
PROJECTS  
WITH CORPORATES

Milan, 2020

Padova, 2018

Cecina, 2019

L'Aquila, 2017-2023

4 deployments in Rome

G7 Summit  
2017, Taormina

**Texol**  
TECHNOLOGIES & SOLUTIONS

**COMAU**

**FAGOR**  
ARRASATE

**cea**

**federated  
innovation  
@MIND**

**Eni**

**Tel Aviv  
HaHagana  
Train Station**

**ENGIE**

**TATA STEEL**

**G7 2017  
ITALIA**

**Aeroporti  
di Roma**



Operations, LABS, and  
PLANTS in Italy  
(RM, CH, NA, and TO, care of  
COMESVIL and COMAU  
within PURE and CLEAN AIR  
NET projects)

## MANY DISRUPTIVE INSTALLATIONS AT THE SURFACE LEVEL, IN REAL-WORLD ENVIRONMENTS

### DEMONSTRATED PURIFICATION CAPABILITIES TO SUPPORT ALL DEVELOPMENT MODELS



Milan – Urban Area



CIAMPINO AIRPORT  
(indoor and outdoor)



INCINERATOR - PADOVA



WASTE TREATMENT - CECINA



France – Industrial site



Rome – Urban Park



G7 Summit 2017



CLEAN AIR MALL - ROME



POLLUTION FREE SCHOOL - ROME



1ST SMART CLEAN AIR CITY L'AQUILA



Israel - Rail Station

200 + Installations so far for workplaces, industrial sites and urban spaces, both indoor and outdoor



## SOME REAL-WORLD DEPLOYMENTS: SIGNIFICANT MEASURED RESULTS

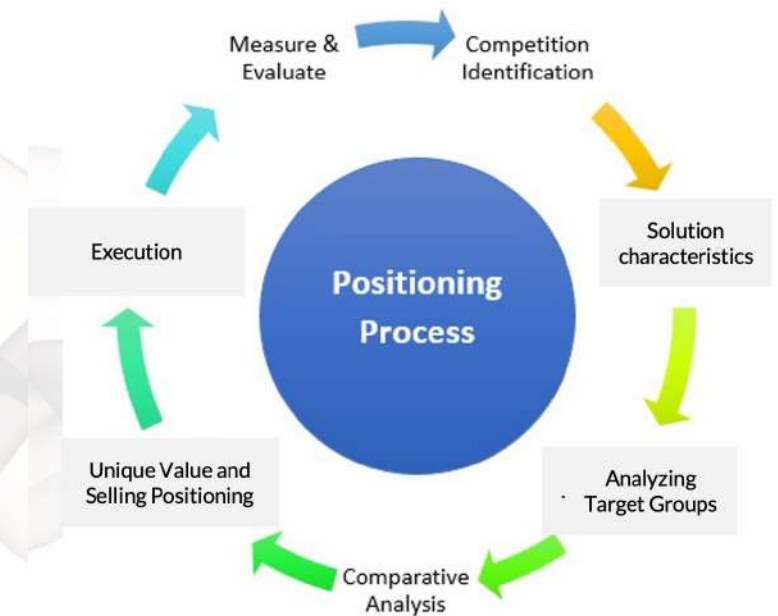
APA efficacy is based on air-cleaning cycles over time	Number of APA systems	Abatement rate verified	Initial Concentration		Measurement time
			<i>PM</i>	<i>NOx</i>	
URBAN AREA (1 <sup>st</sup> case)	3	>70% >45%	42µg/m <sup>3</sup> (average)	70µg/m <sup>3</sup> (average)	1 year
URBAN AREA (2 <sup>nd</sup> case)	2	>40%	confidential	confidential	1 month
AIRPORT SPACES	2	>70% gate area >60% baggage	confidential	confidential	7 weeks
POLLUTION-FREE SCHOOL	3	>55% (PM) >48% (NOx)	45µg/m <sup>3</sup> (average)	85µg/m <sup>3</sup> (average)	6 weeks
POLLUTION-FREE TRAIN STATION	2	>50% (PM) >35% (NOx)	33µg/m <sup>3</sup> (average)	400µg/m <sup>3</sup> (average)	4 weeks
BIOMASS CO-GENERATION	1	>99% (CO) >95% (PM) >90% (SOx)	confidential	confidential	6 months
INCINIRATOR	3	>65% (PM)	confidential	confidential	4 months
MILLING - PAINTING	5	>50% (PM) 40-60% (VOC) >60% (CH <sub>2</sub> O)	confidential	confidential	6 weeks



## STRATEGIC POSITIONING



NOW



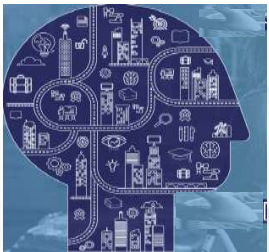
Source: iSCLEANAIR, 2020 - 2023





## A SENIOR EXPERIENCED AND ENTHUSIASTIC TEAM

### MAIN EXECUTIVES



**GIUSEPPE SPANTO**  
Founder -  
Managing Director



**FABIO GALATIOTO**  
CTO and Technology Management  
Environment and Energy Expert



**PIETRO CALO**  
President



**SANDRO DESIDERI**  
Commercial Partner and  
Business Developer  
Environment and Energy Expert



**CHIARA VERDERESE**  
Tech support and  
Business Development



An AGILE TEAM  
of over 21 ENGINEERS  
"at work" globally (as 15 FTE),  
passionate and committed in actions,  
jointly with  
**QUALIFIED SENIOR EXECUTIVES AND  
ADVISORS**

## TECHNOLOGY COMPARISONS: ANOTHER VIEW (UNIQUE SOLUTIONS, CLEARLY SUPERIOR TO ALL COMPETITORS)



Types of technology	No filter	PM and chemicals <sup>(1)</sup>	Running costs	Indoor and Outdoor	Size	Purification power overtime
	✓	✓ Simultaneously	\$	✓	S	Constant (never clog)
HEPA filters		Only PM	\$\$\$		M	50% in 1.000 hrs
Activated carbon		Only some chemicals	\$\$S		S/M	
HVAC		Only PM	\$\$\$\$		XL	< 50% in 1 year
Standard water showers	✓	Mainly PM	\$\$		M/L	Constant

Compared to alternative solutions our water-based APA (Air Pollution Abatement) technology is unique, completely filterless, and simultaneously removes a wide range of pollutants, at a fraction of the cost of filters (a few euros for the water compared to hundreds if not thousands per year of filters replacement, has a small size footprint (per volume of air treated) and maintains over time the same Purification power.

(1) The widest range of chemicals (NOx, SOx, VOCs, CO, ...)



## OUTLOOK ON THE COMPETITIVE ADVANTAGES

- ✓ The only one filter-less solution, water-based, no waste, low running costs and financial savings (nature-based)
- ✓ Abate simultaneously the widest range of pollutants and harmful elements
- ✓ Multi - design and multi-function
- ✓ Ambient air cleaning at surface level, distributed
- ✓ Strongly patented, certified, intelligent, modular and flexible multiservice platform
- ✓ Monitoring and remote controls features
- ✓ Embeds IoT, AI, Energy Efficiency, Climate Change, Sustainable Development, Human Health and Circular Economy (enabler)
- ✓ A wide set of air cleaning solutions already realized and installed in many environments
- ✓ Contamination detections on APA water, timely or in real time



OLD SYSTEMS WITH  
PAPER FILTERS  
(still in use)



## THE INTERNATIONAL PATH AND THE MILESTONES



- <https://www.youtube.com/watch?v=05PYcp2xamk&t>
- <https://youtu.be/pmS0mnYtlSg>
- <https://youtu.be/1yHfGj6lpVw>



URBAN PROTOTYPING PHASES |  
DIRECT FINANCING |  
FEB - MARCH 2011  
AND SEPT 2011 - SEPT 2013

LAUNCH OF  
TECHNOLOGY  
ACTIVITIES



INDUSTRIAL PROTOTYPING  
PHASES | IT LOC GOV |  
OCT 2011 - APR 2013

NEW URBAN PROTOTYPING PHASES |  
MISE (IT GOV) |  
MAY 2014 - MAY 2017

ROLL OUT OF  
ISCLEANAIR  
ACTIVITIES, FROM  
CRADLE TO MARKETS |  
APRIL 2017

SMART e START - LAB AND  
PLANT FOR INTERNAL  
PRODUCTION AND CORE  
ELEMENTS Mgt. | INVITALIA -  
IT GOV |  
MARCH 2016 - JULY 2019

APA INDUSTRIAL up to TRL 8 |  
EIC - EC |  
MAY 2015 and FEB 2018 - DEC  
2020

PURE - INDUSTRIAL TRL 9 |  
EIT MANUFACTURING - EC |  
JAN 2021 - DEC 2021

ENERGY EFFICIENT BUILDING  
WITH FILTERLESS APA SOLUTION |  
INNOVATE UK - UK GOV |  
JAN - JUNE 2023

CLEAN AIR NET - INTERIOR SPACES  
TRL 8 - 9 |  
EIT MANUFACTURING - EC |  
JAN 2023 - DEC 2023

NeZAPoB - HVAC (ATUs) |  
MISE IT GOV |  
SEPT 2020 - DEC 2023

INTEGRATION OF  
ENERGY AND  
WASTE MGT  
SOLUTIONS IN  
OUR SCALABLE  
VALUE CHAIN



A GREAT AND  
PROMINENT  
SERIES OF  
AWARDS,  
PRIZES,  
RECOGNITIONS  
AND  
VALIDATIONS  
ALONG WITH  
THE IP AND  
BUSINESS  
DEVELOPMENTS  
IN THE FIELD

DESIGNED STEPS TO GROW UP  
FROM THE DEEP TO THE HIGHEST  
"TECHNOLOGY AND MARKET READINESS LEVEL",  
THANKS TO CO - INVESTMENTS  
AND QUALIFIED RISK MITIGATION PROMINENT  
INTERNATIONAL PROJECTS,  
LOOKING FORWARD OVER THE HORIZON

## AN ASSET-BACKED INITIATIVE TO SERVE AND ATTACK THE ENORMOUS SERVICEABLE MARKETS



### EXTRAORDINARY EXPANSION OPPORTUNITIES

#### GO-TO-MARKET STRATEGIES

JOINT  
VENTURES

PUBLIC  
PRIVATE  
PARTNERSHIPS

AD HOC  
PROJECTS

APA SYSTEM  
SALES

#### LARGE TARGET GROUPS

WORKPLACES and  
INDUSTRIAL  
PLANTS



COMMERCIAL,  
REAL ESTATE and  
BUILDINGS



PUBLIC SPACES  
(indoor and  
outdoor)



INTERIORS SPACES,  
as OFFICES,  
LOCALS and  
DOMESTIC AREAS

### PLANNED INVESTMENTS

Enhance and improve the organization, plant and labs and start direct scale up phases globally

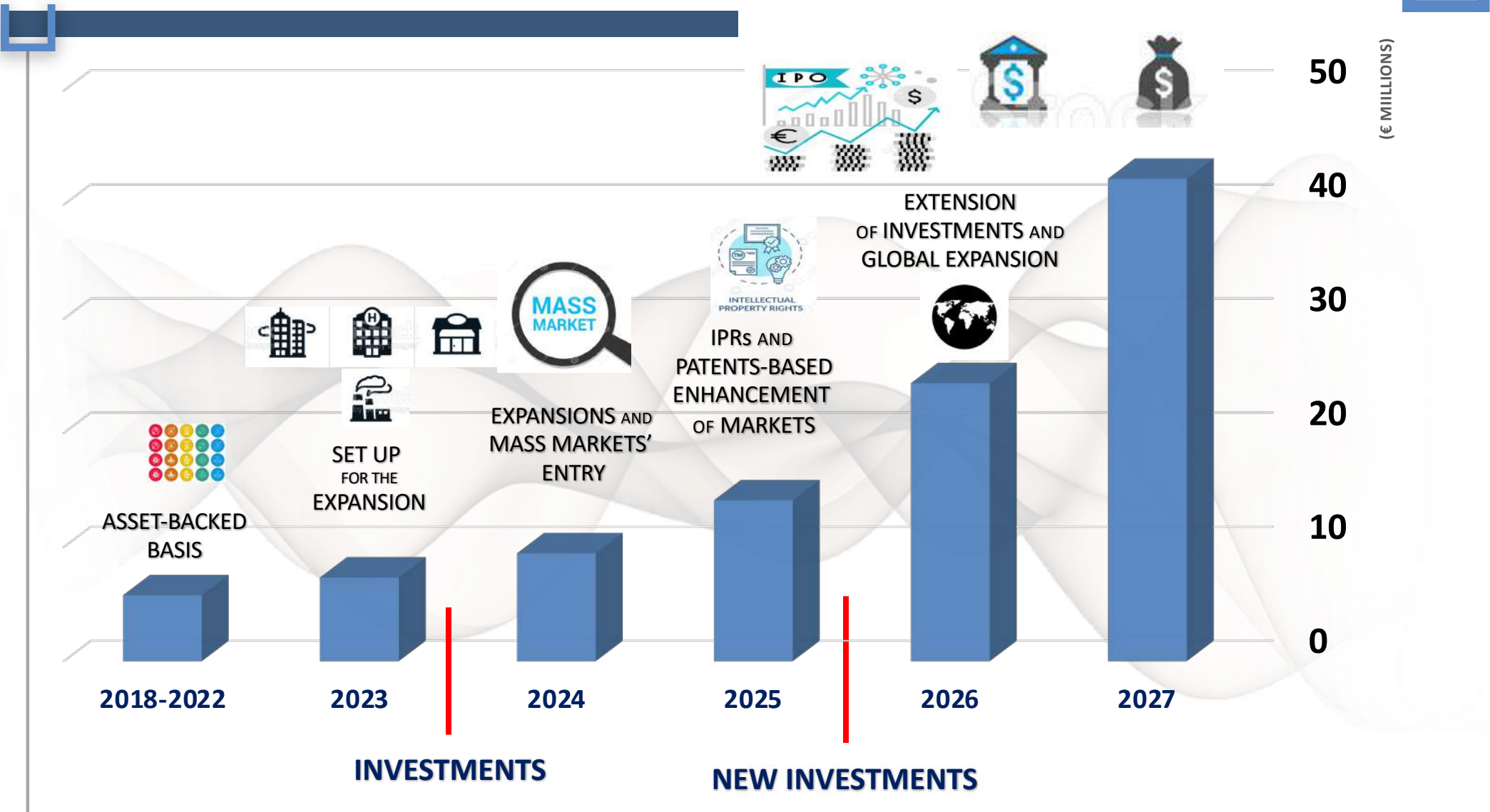
Support commercial activities and working capital

New intellectual properties and further extension of the strong certifications' framework owned, globally

Support new extensive growth opportunities on new solutions and products integrating energy solutions, new segments, verticals and territories, worldwide

M&A to drastically increase the company growth opportunities in the mid-term

SCALING STRATEGIES, MODULAR



# THANK YOU VERY MUCH



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CONTACTS

- [info@iscleanair.com](mailto:info@iscleanair.com)
- [gspanto@iscleanair.com](mailto:gspanto@iscleanair.com)



# APPENDICES







WE ARE PART OF THE EFFICIENT SOLUTIONS  
**TO PROTECT**  
**THE ENVIRONMENT**  
**IN A PROFITABLE WAY**







European  
Innovation  
Council

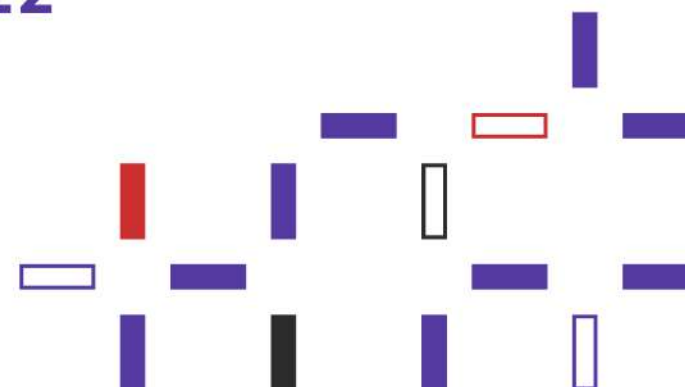


## EIC Greenhouse Gas Programme

at the EIC SUMMIT 2022

WINNER 2021 - 2022

7 December 2022



Co-creation peer-to-peer



#EUeic

## A WIDE MEDIA COVERAGE (ABSTRACT)



<https://www.radio24.ilsole24ore.com/programmi/paese-migliore/puntata-si-puo-fare-l-aria-083530-AEPr2FaB>

[https://www.linkedin.com/posts/agrop-edromiranda\\_ghgsummit22-carbonneutrality-corporates-activity-7006291381597954048-fbbB?utm\\_source=share&utm\\_medium=member\\_ios](https://www.linkedin.com/posts/agrop-edromiranda_ghgsummit22-carbonneutrality-corporates-activity-7006291381597954048-fbbB?utm_source=share&utm_medium=member_ios)

❖ <https://open.spotify.com/episode/6FSDMphypHpAAIAIYU3ku5>

In the podcast TIPIK / CORDIS, EU researchers tackle pollution

❖ <https://cordis.europa.eu/article/id/429950-helping-heavy-industry-clear-the-air>

❖ <https://community-smei.easme-web.eu/articles/green-innovations-eic-funded-company-iscleanair-combining-sustainability-air-purification>

❖ <https://cordis.europa.eu/project/id/672051>

❖ <https://cordis.europa.eu/article/id/429867-new-filter-less-water-based-cleaning-system-reduces-air-pollution-by-up-to-99>

❖ <https://www.comau.com/en/2021/10/20/comau-joins-the-pure-european-project-as-a-partner-for-the-industrialization-of-an-innovative-air-purification-system-within-manufacturing-environments/>

❖ <https://www.comau.com/en/2021/12/03/at-the-eit-manufacturing-summit-comau-shares-insights-about-the-pure-air-project/>

❖ <https://greenretail.news/innovazione-ricerca/comau-stellantis-contribuisce-al-progetto-europeo-pure-dando-vita-ad-una-nuova-tecnologia-di-purificazione-dellaria.html>

❖ [https://www.linkedin.com/posts/easy-engineering-magazine\\_interview-with-iscleanair-activity-6983065392537563136-83\\_4?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/easy-engineering-magazine_interview-with-iscleanair-activity-6983065392537563136-83_4?utm_source=share&utm_medium=member_desktop)

❖ <https://www.linkedin.com/feed/update/urn:li:activity:6996052546469400577>

❖ [https://www.linkedin.com/posts/iscleanair\\_peasengo-peasengo-agenda2030-activity-7000752328723042304-3yel?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/iscleanair_peasengo-peasengo-agenda2030-activity-7000752328723042304-3yel?utm_source=share&utm_medium=member_desktop)



## SOLUTIONS AND SERVICES TO SERVE THE SCALING-UP PHASES



**APA PRODUCTS (MAIN)**



**APA SOLUTIONS, value propositions of new AIR CLEANING ADVANCED SYSTEMS to be implemented everywhere, in all the spaces of life and work**

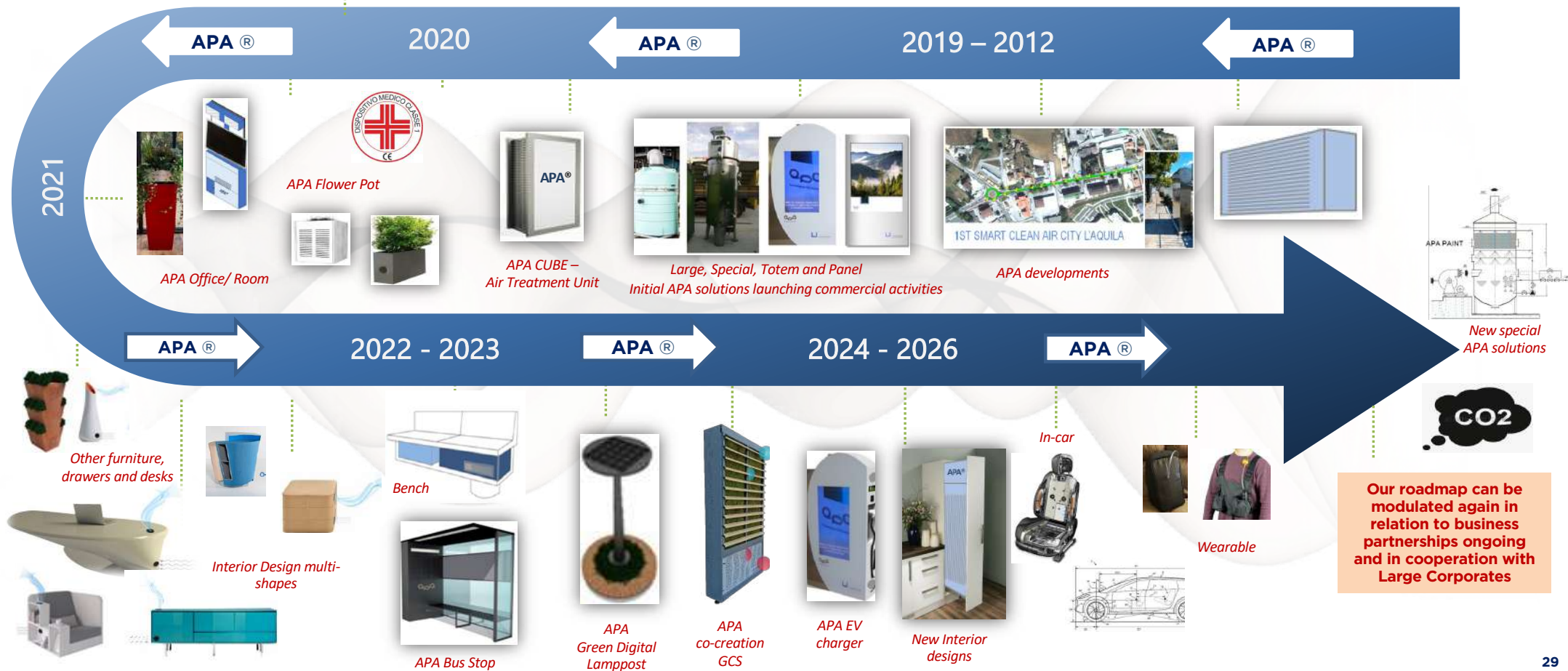




ISCLEANAIR listed in the Leader of growth 2020 for Italian and EU SMEs

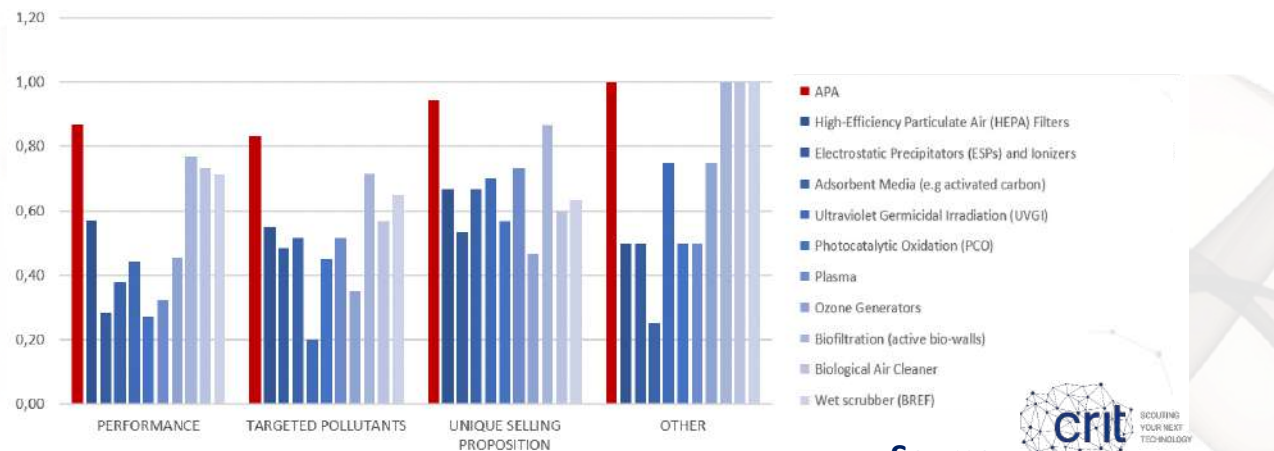
APA deep tech: main solutions up to date for industrial sites, urban spaces, industries and workplaces (private and public)

Flexible, modular and scalable design, easy to install «as is», manage and integrate to pre-existing infrastructures



## APA VERSUS COMPETITION, ON AIR PURIFICATION

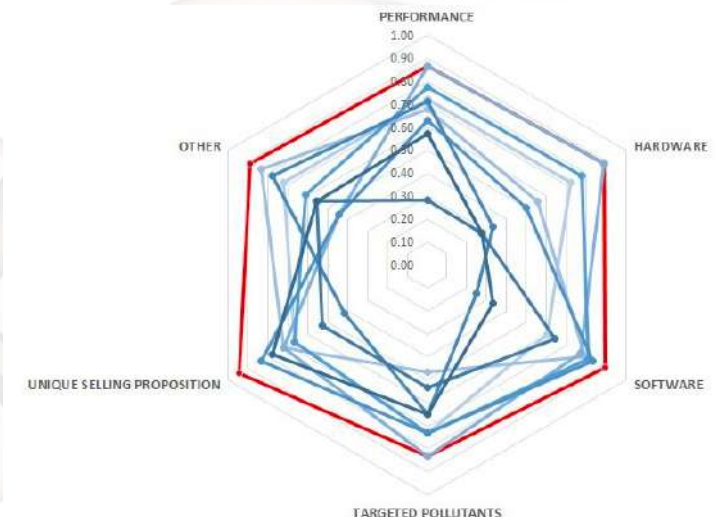
### COMPARATIVE INDEX: APA versus other AIR PURIFICATION TECHNOLOGIES



Source:  **TECHNOLOGY DUE DILIGENCE - 2021**

### The best in comparison with other competitive technologies:

- Best performances
- Widest range of targeted and abated pollutants
- Unique Selling Proposition
- Other differentiating qualities (Investment costs, Operating costs, Transportability and Handling)



- **APA has demonstrated its supremacy for performances, targeted pollutants, and Unique Selling Propositions with respect to all the identified competitors, and in the category “Others” is positioned at the top with other three technologies**
- **Additional prominent certifications and qualifications have been released in 2022 and are on going**

## A TECHNOLOGY DUE DILIGENCE (April 2021) PUT INTO EVIDENCE OUR DIFFERENTIATIONS (1/2)



- The mentioned technological due diligence (TDD) was requested (End of 2020 – Early 2021) as an independent specialized service to a qualified third party of experts, with the aim of carrying out a 360° assessment of the contents and characteristics of the APA technology in comparison with its performance, the market needs, and the presence of other technologies as an actual existing competition (actions on ambient air, abatement capacity, environmental trade-offs, applications distributed and ground level, selling propositions, etc.)
- The TDD activities focused on supporting and clarifying the execution of the project, were planned in order to complete the framework of the operational and installation results and measurement operations should have been carried out by third parties included in the value chain of our project with respect to all the needs emerged with the update of the on-site installations, also to achieve better qualifications of APA technology and systems and optimizations of the related costs
- The aforementioned TDD, further, permitted us to verify the absence of risks or technical or technological problems concerning the activities carried out with the use of APA technology
- This was and is, an integral part of the structure of the initiative as a whole, and they are very functional to the future industrialization of the systems
- The analysis, also referring to important commercial factors, comforted the company even with respect to the planning of future investments for the industrialization of the technology, planned to be carried out with territorial locations and in business partnerships with important technical-industrial and commercial actors and subjects

## A TECHNOLOGY DUE DILIGENCE (April 2021) PUT INTO EVIDENCE OUR DIFFERENTIATIONS (2/2)



- The in-depth assessment of the APA technology proved to be fundamental to contextualizing the project activities and positively opening up to the initiative's next expected evolutions, in advanced execution
- In particular, in the light of the significant guidelines for future development, expected for the next few years and in profound transformation regarding the interventions to combat climate change (since all pollutants are climate-altering) and the economic-social trends emerging, also at the institutional and regulatory level within the world and European panorama (ESG - Environmental, Social and Governance, Circular Economy, Green Deal, Zero Pollution Ambition Plan and Green House Gas Program, Agenda 2030 and other)
- In this regard, we underline that all the official information available (internally and externally on the websites, databank, publications, qualifications, commercial agreements, technology magazines, patent offices, etc.) and the main and most consolidated information in the cleantech sector have been collected and analyzed within the TDD exercise
- This is also, to well understand its functionality, performance and effective competition concerning the APA technology and system's potentiality, with clear attention to the distinctive and differentiating elements, also in terms of real positive effects and benefits to the limitation and mitigation of environmental impacts
- The positive externalities of APA as a cross-innovation and in compliance with the opportunity to concretely answer to many precise goals of the UN 17th SDGs, and the added value recently emerged for the possible applications even within the medical sectors (in June 2020 APA we became eligible also under a Horizon 2020 specific projects), clearly enrich the conclusions and results of the mentioned deep Technology Due Diligence

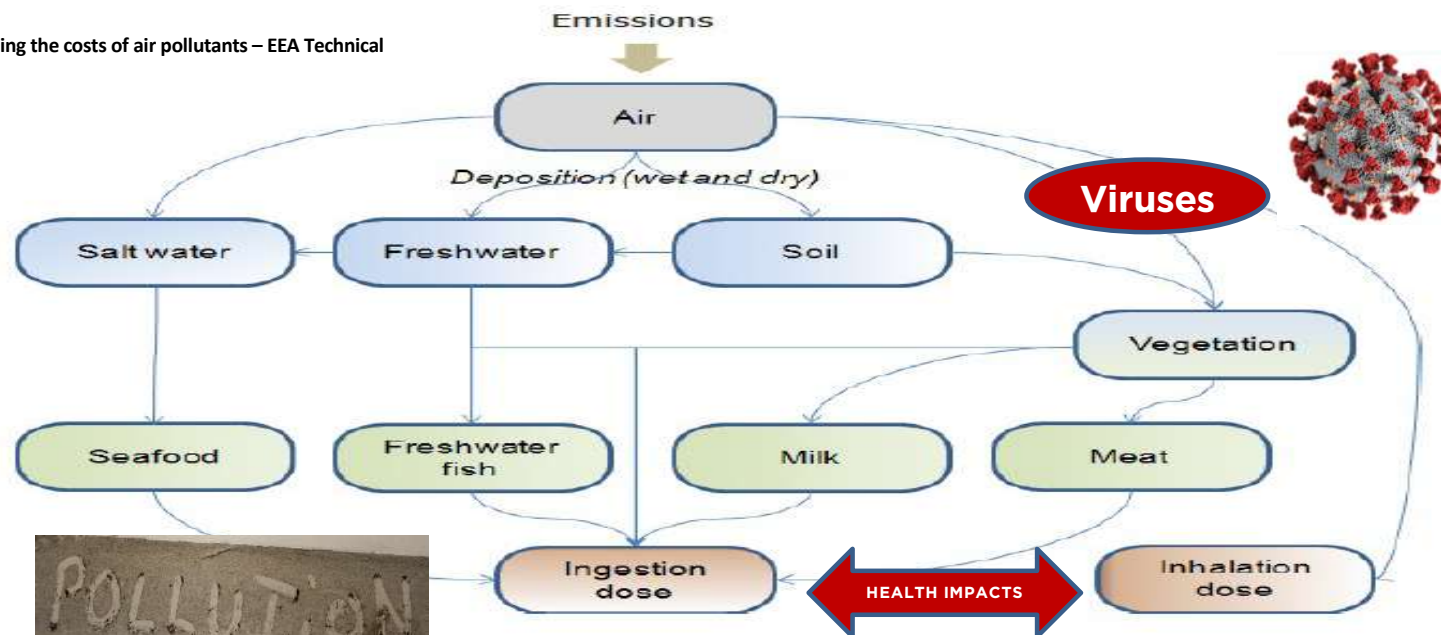




## EVIDENT AND INDISPUTABLE HEALTH IMPLICATIONS OF AIR POLLUTION WE ALL BREATHE

### TOXIC AIR POLLUTANTS AND HARMFUL MICROORGANISMS ALWAYS ARRIVE IN OUR ORGANISM

Source: "Revealing the costs of air pollutants – EEA Technical Report 2011"

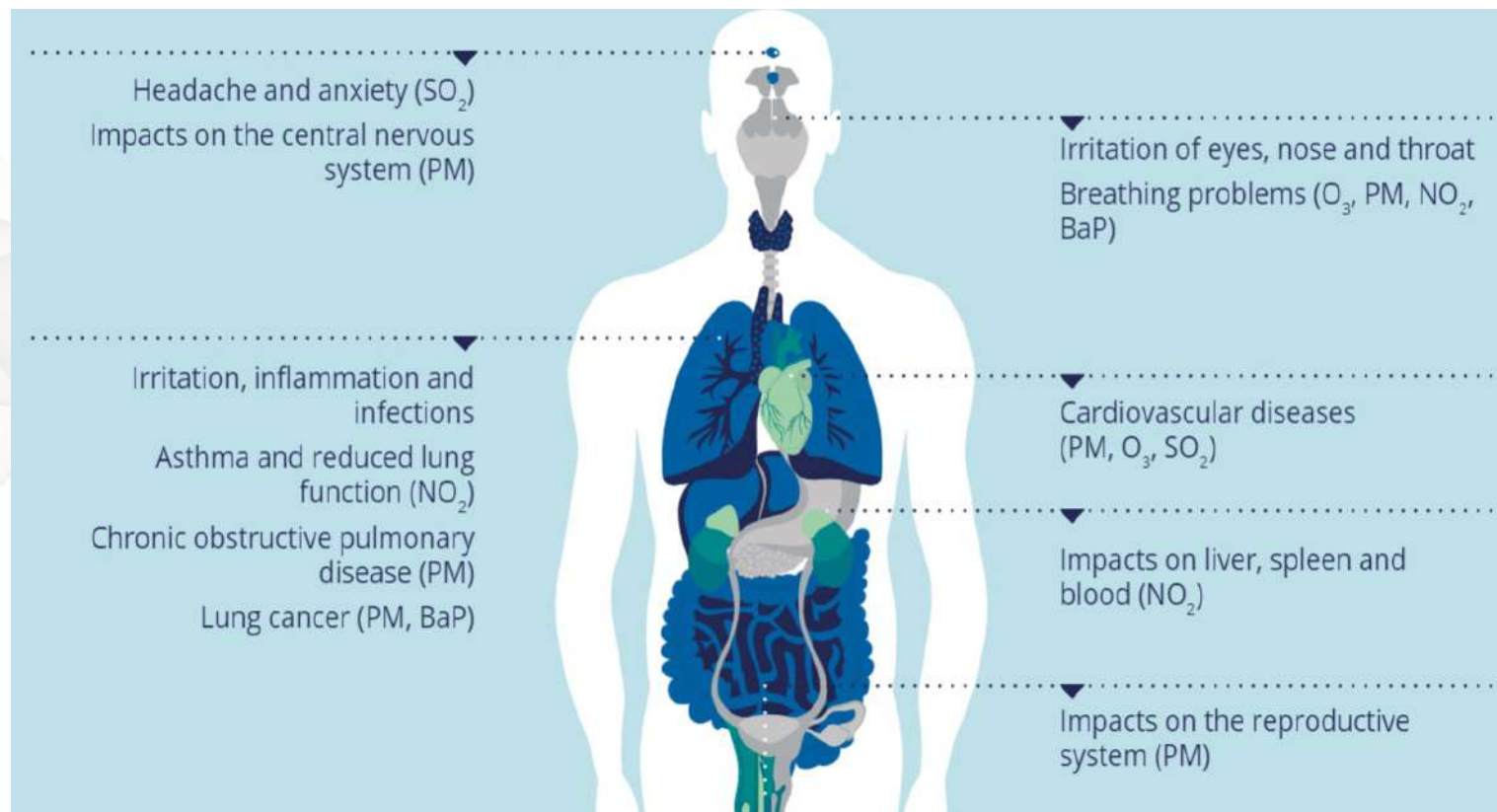


Air pollutants spread the viruses and are always climate - alterant and harmful to human health and the environment

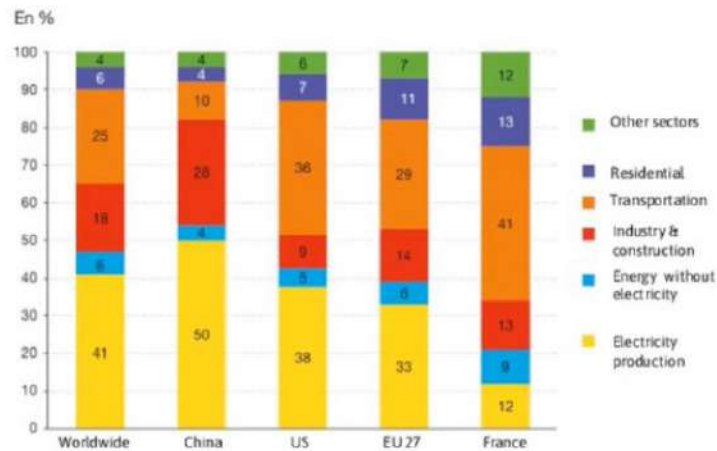


WHAT THEY DON'T TELL YOU ABOUT CLIMATE CHANGE ...  
STOPPING THE FLOW OF CARBON DIOXIDE (CO<sub>2</sub>) INTO THE ATMOSPHERE IS NOT  
ENOUGH! IT HAS TO BE SUCKED OUT, TOO.  
APA SUCKS IN FROM AIR ALL POLLUTANTS AND HARMFUL ELEMENTS

### POLLUTANTS ARE VECTORS AND CONTAMINATION RISK FACTORS



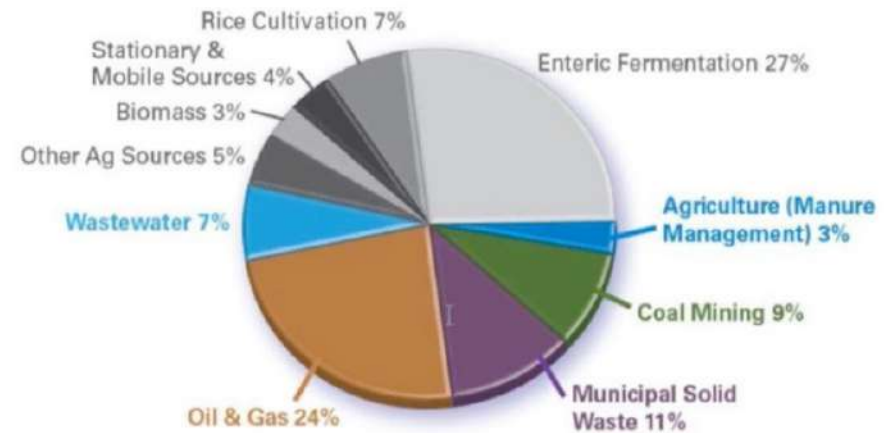
## WHERE DO GREENHOUSE GASSES COME FROM?



Source : AIE, 2020

### Carbon Dioxide (CO<sub>2</sub>)

Comes mostly from burning fossil fuels (oil, gas, coal) to produce electricity, or from transports and the industry



### Methane (CH<sub>4</sub>)

Methane comes mostly from fossil fuels extraction and agriculture (cattle, rice cultivation & manure)

**apa**<sup>®</sup>  
AIR POLLUTION  
ABATEMENT

APA SUCKS IN AND TRAPS POLLUTANTS AND  
HARMFUL MICROORGANISMS, UTILIZING ONLY  
SIMPLE WATER (NATURE-BASED) AND  
MECHANICAL FORCE





**WE ARE PART OF THE  
#1000SOLUTIONS  
TO CHANGE  
THE WORLD**



# BREATHE YOUR LIFE



WORKING TOGETHER FOR A HEALTHIER AND SAFER  
CLEAN AIR WORLD