

# VT AIR

OT NEXT GEN FIREWALL

Presented by  
VOLEATECH GMBH



# THE THREAT

NO ELECTRICITY

NO WATER

NO HEAT



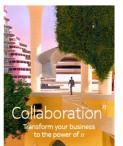
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Our Mission



A hacker broke into a Florida town's water supply and tried to poison it with lye, police said

By Jacob Dreyer  
February 3, 2021 at 9:30 a.m. EST





27.10.2023

The New York Times

NEWS ANALYSIS

## Pipeline Attack Yields Urgent Lessons About U.S. Cybersecurity

The hack underscored how vulnerable government and industry are to even basic assaults on computer networks.

Share full article



Cybersecurity experts said Colonial Pipeline would never have had to shut down its pipeline if it had more confidence in the separation between its business network and pipeline operations. Drone Base, via Reuters

### Hacker manipulieren Wasser in Aufbereitungsanlage

Eindringlinge haben den Natriumhydroxid-Wert in einem Wasserwerk um ein Vielfaches erhöht. Der Angriff wurde rechtzeitig bemerkt.

in Pocket speichern

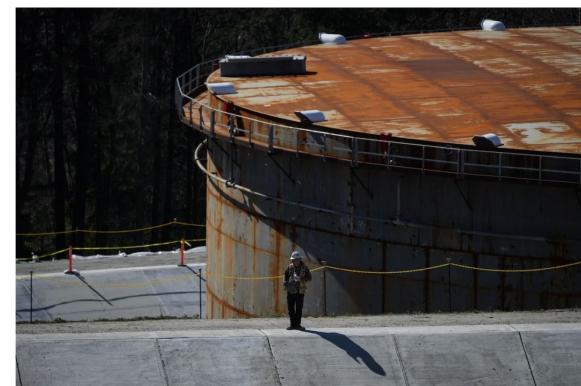


9. Februar 2021, 10:04 Uhr, Moritz Tremmel/dpa



The Washington Post  
Democracy Dies in Darkness

Hackers claimed to have breached a Canadian pipeline. Their assertions lie somewhere between dangerous and doubtful.



A worker stands on a concrete berm at the Trans Mountain Pipeline expansion project in Burnaby, British Columbia, Canada, on March 27. (Darryl Dyck/Bloomberg News)

ZUKUNFTSMÄRKE >

TEILEN

### Seit Kriegsausbruch: Hacker legen deutsche Windkraftwerke massenweise lahm

In der Energiebranche macht ein Gerücht die Runde: Russland spielt nicht nur seine Trümpfe in der Versorgung Deutschlands mit Gas, Öl und Kohle aus, sondern versucht die Windkraftanlagen hierzulande durch Cyberangriffe zu stören. Beweise dafür fehlen, aber Indizien finden sich. Damit trafen die Hacker die zweitwichtigste Quelle Deutschlands zur Stromgewinnung. Sicherheitsexperten schlagen Alarm und warnen erneut vor einem Blackout.



# VT AIR THE SOLUTION

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aufgrund eines Beschlusses  
des Deutschen Bundestages



1

## Latest safety standards

Intrusion protection, latest encryption algorithms, regular update packages, etc.

2

## Investing in the future

With VT AIR 310 you have a system (hardware and software) that can be adapted/changed at a later date.

3

## Lower Costs

Thanks to our all-in-one solution (SHDSL; VDSL; SFP; LTE/5G), you need 2 to 3 devices less to secure a system.

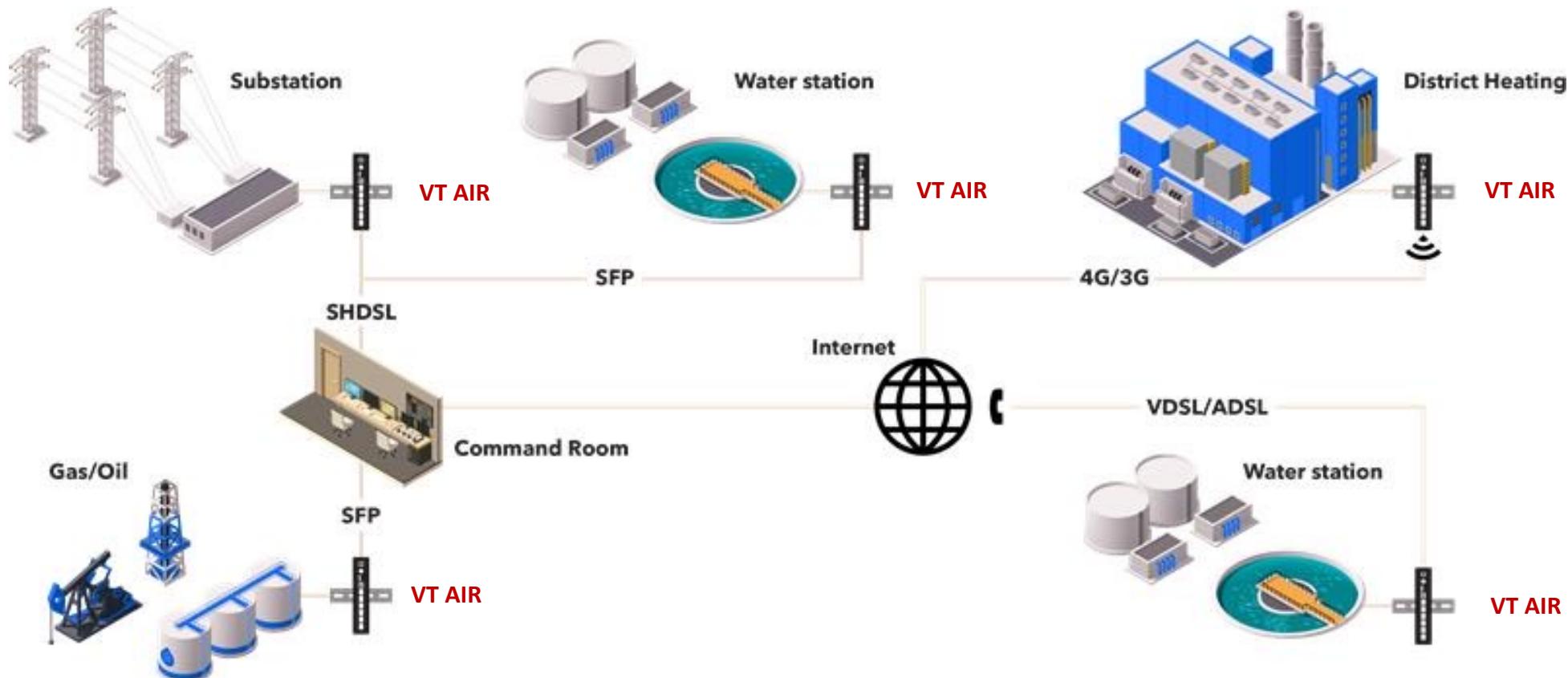
4

## Less maintenance

VT AIR firewalls can be centrally managed and configured using the modern software.

# VT AIR USE CASES

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# VT AIR SOFTWARE ADVANTAGES

OT NEXT GEN FIREWALL

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## Next Gen Software

- Software-Packages
- Modern Web Interface
- Edge Computing (Docker-Apps)

## Next Level Security

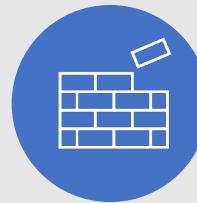
- Intrusion Protection
- DDoS-Protection
- Modern VPNs
- Multifactor-Authentication

## SaaS

- Runs on any hardware
- x86
  - arm32
  - arm64
  - ...

# WHY VT AIR?

... FIREWALL SOFTWARE FOR THE  
OT MARKET



## Next Gen Firewall Features

Current systems do not offer modern features adapted to the needs of the OT sector.



## Next Gen OT Security

Features such as intrusion protection, deep packet inspection, and other filtering capabilities for network devices are not offered in network security products for the OT sector (industrial and critical).



## Future Ready (SaaS for OT & IT)

Today's products offer simple security elements that are not suitable for the cyber security challenges of the future. They are not easily expandable and are also hardware-bound.

# VT AIR TARGET MARKET

OT-Networks



Kritis



Security Operations Center  
(SOC)





# ABOUT VOLEATECH

CYBER SECURITY MADE IN REUTLINGEN

2015

Founded

6

Employees

> 2500

Customer

# THE FOUNDERS



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**Sven Auhagen - CEO & Dev**  
[sven.auhagen@voleatech.de](mailto:sven.auhagen@voleatech.de)



- 10 years+ Software Dev. and Entrepreneur
- MSc. Computer Science (USA)
- Dipl. Business Mathematics



**Marianne Dunker - CEO & Sales**  
[marianne.dunker@voleatech.de](mailto:marianne.dunker@voleatech.de)



- 10 years of psychotherapy
- 20 years+ Entrepreneur (DE & ES)
- Industrial clerk/Psychotherapist

# OUR CUSTOMERS

## SELECTION REFERENCES

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*"Information security is essential for Operators of critical infrastructures particularly relevant. That's why we rely on both the The topic of security as well as in the case of the modernization and Encryption of networks on reliable partners – like Voleatech GmbH."*



**Nils Weniger,**  
**Anlagenservice,**  
**Leit- und Fernwirktechnik**



*"Thanks to the excellent Planning phase, the concept for the changeover and the precise Implementation of the tasks has Voleatech our network transformation within a week for the entire campus with its measuring stations without Problems realized."*



**Frank Neidl**  
**Head of IT Campus Alpine**  
**KIT IMK-IFU**



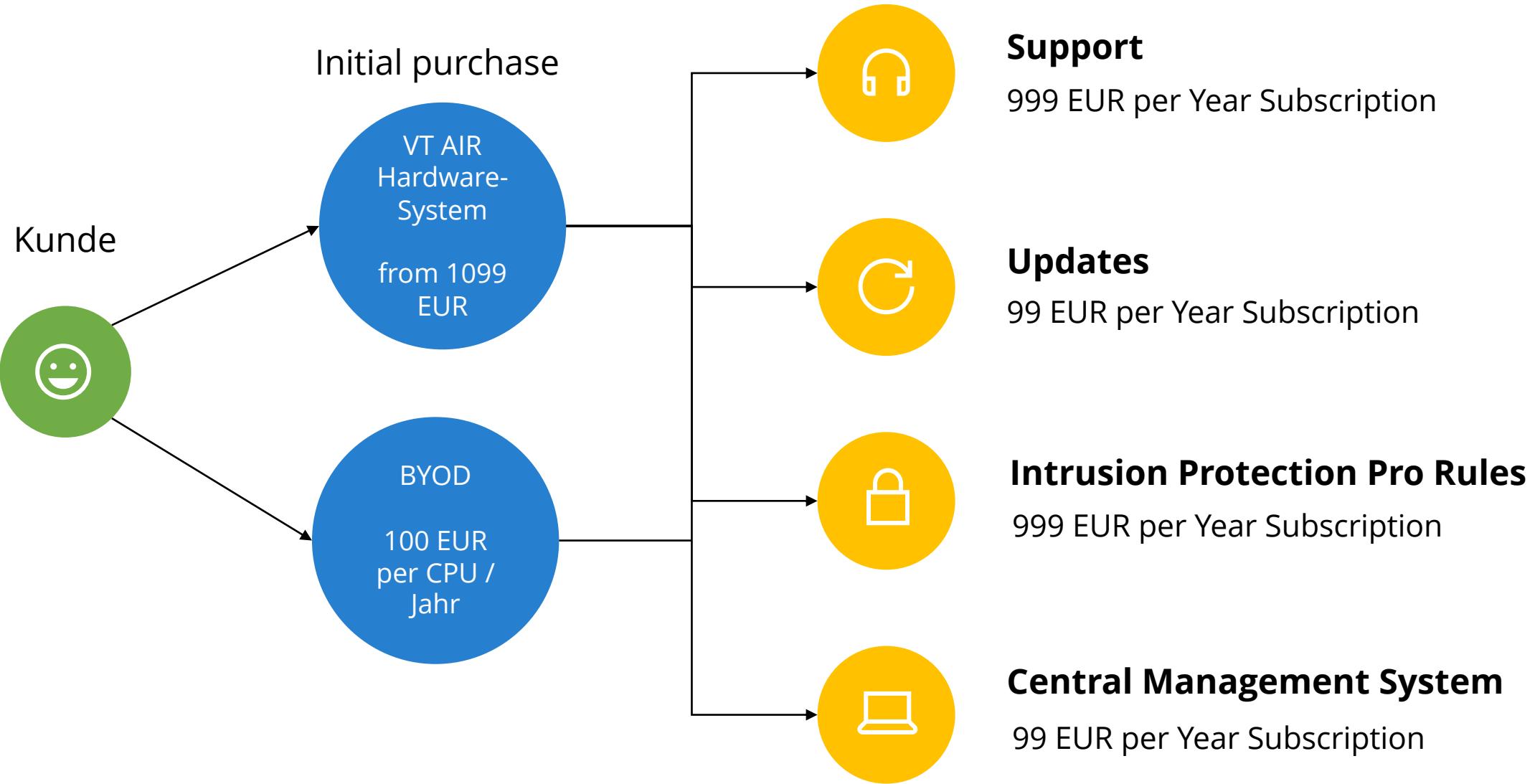
Please understand that, for data protection reasons, we are only allowed to name other customers from the industry on request.

We protect your company value!

[Other Customers](#)

# BUSINESS MODEL

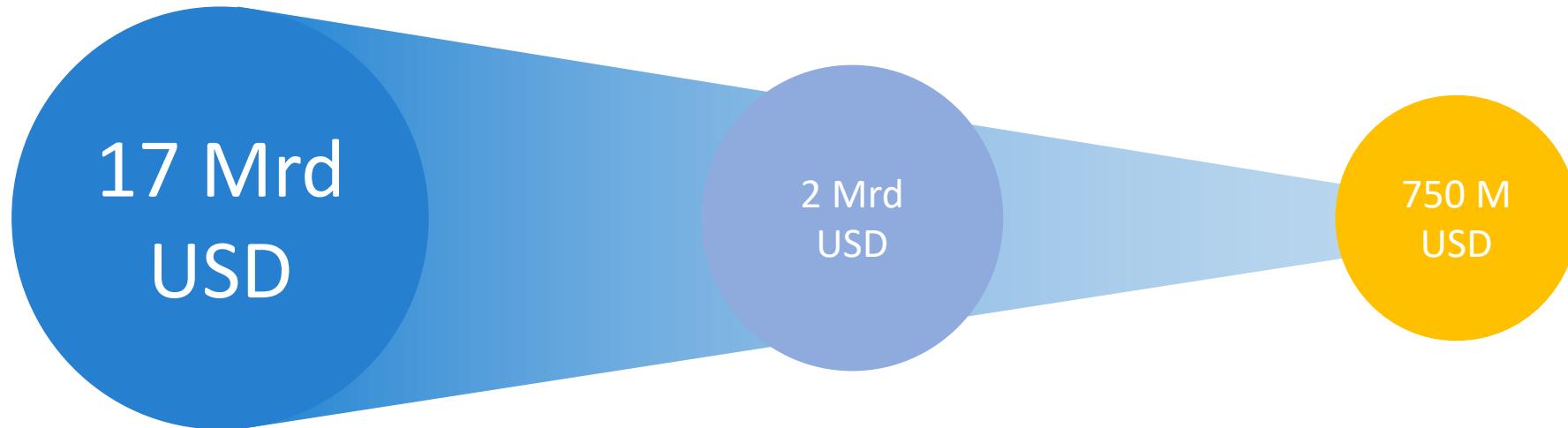
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# GLOBAL OT SECURITY MARKET

By 2030, it is expected to grow to USD 30 billion

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Total Addressable Market (TAM)

Industrial OT Security  
Market

Serviceable Available Market (SAM)

Network Security

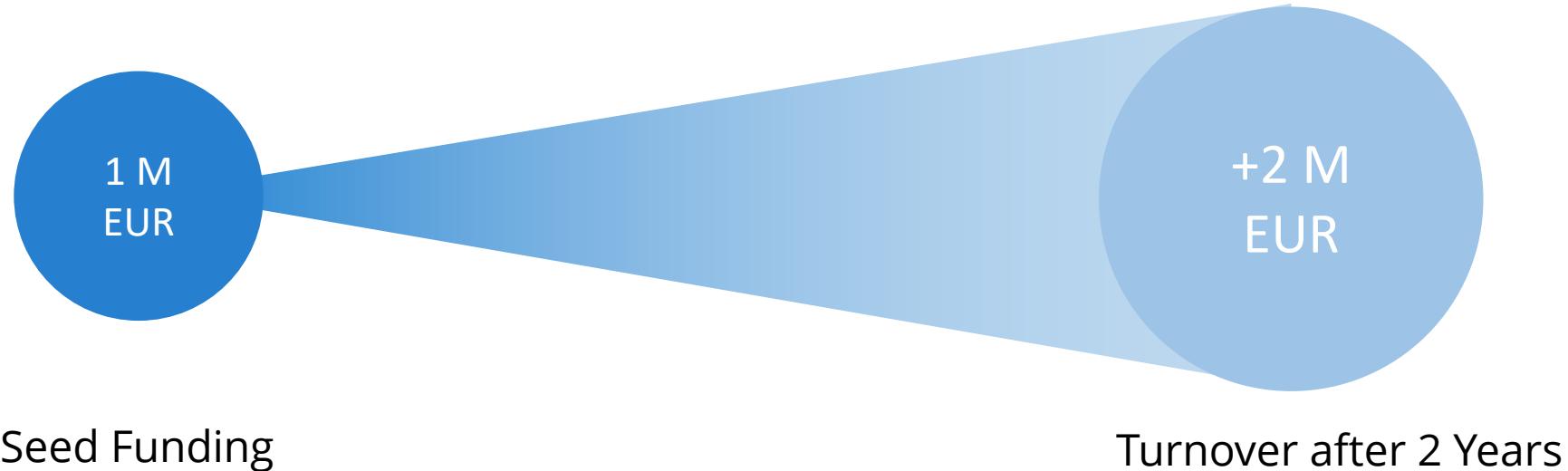
Serviceable Obtainable Market (SOM)

Utilities (energy, water,  
etc.), wind power, smart  
city, ...

# YOUR INVESTMENT

➤ € 1 million capital for the expansion of VT AIR

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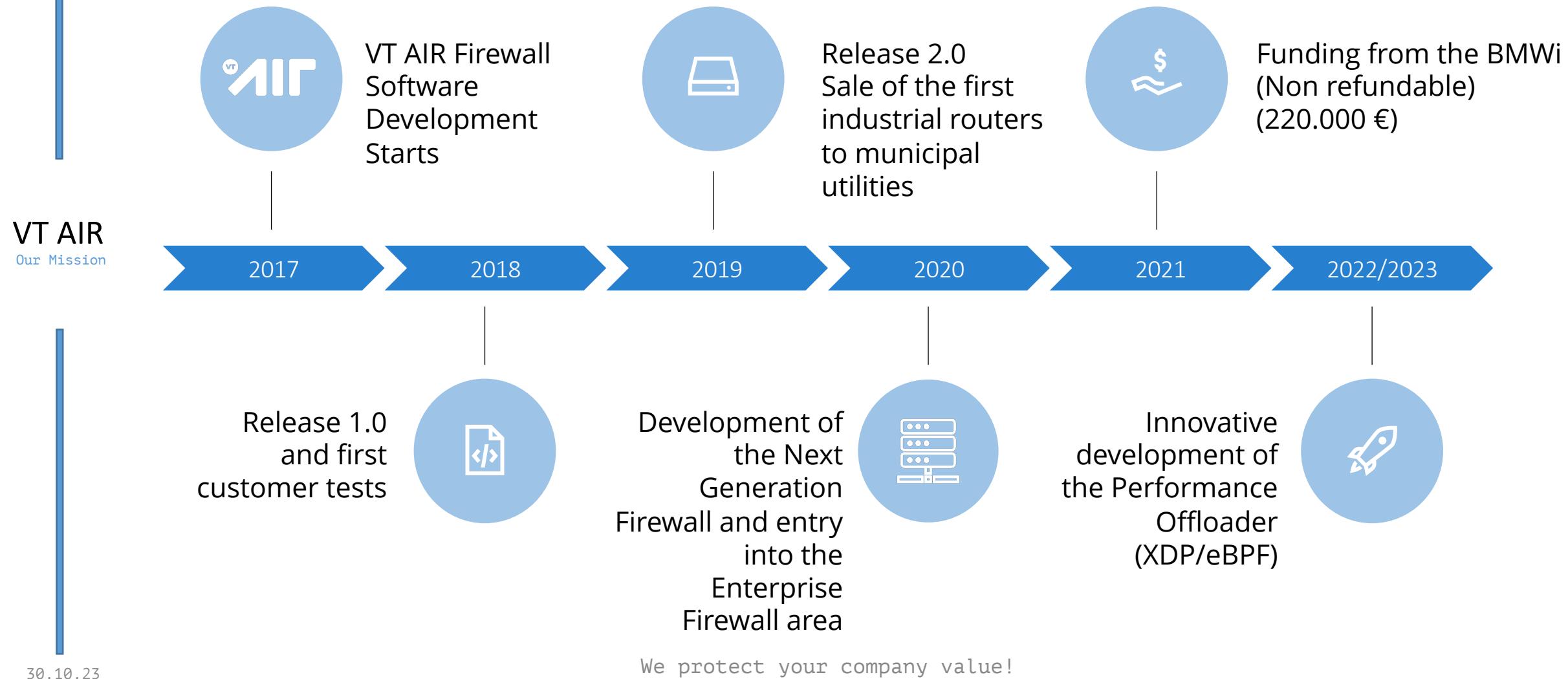
Use of Funds	%
S&M	57%
R&D	28%
G&A	15%

# Thank You!

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# Annex

# VT AIR THE OT FIREWALL

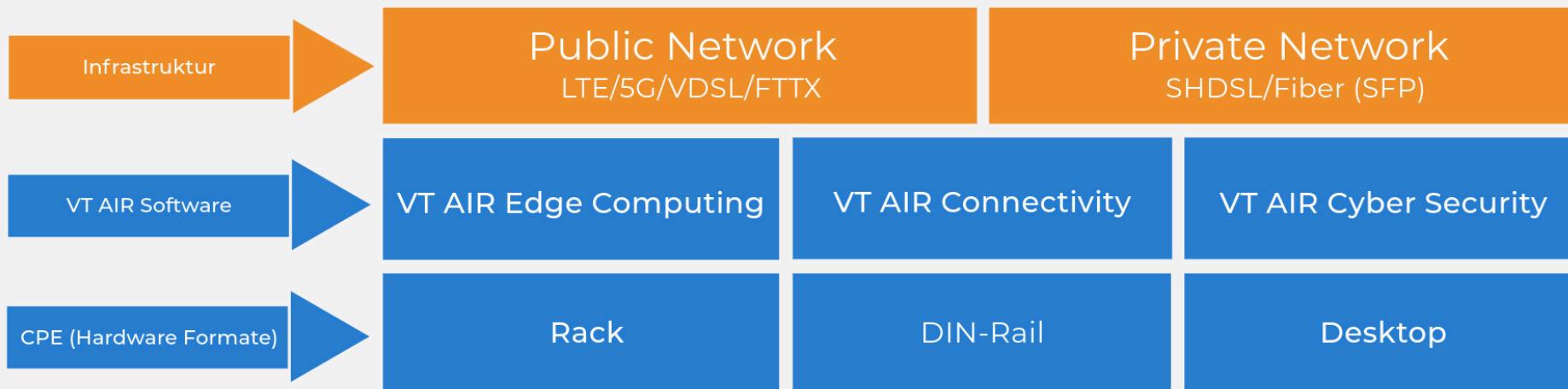


# THE SOLUTION



## VT AIR | Cyber Security & Connectivity

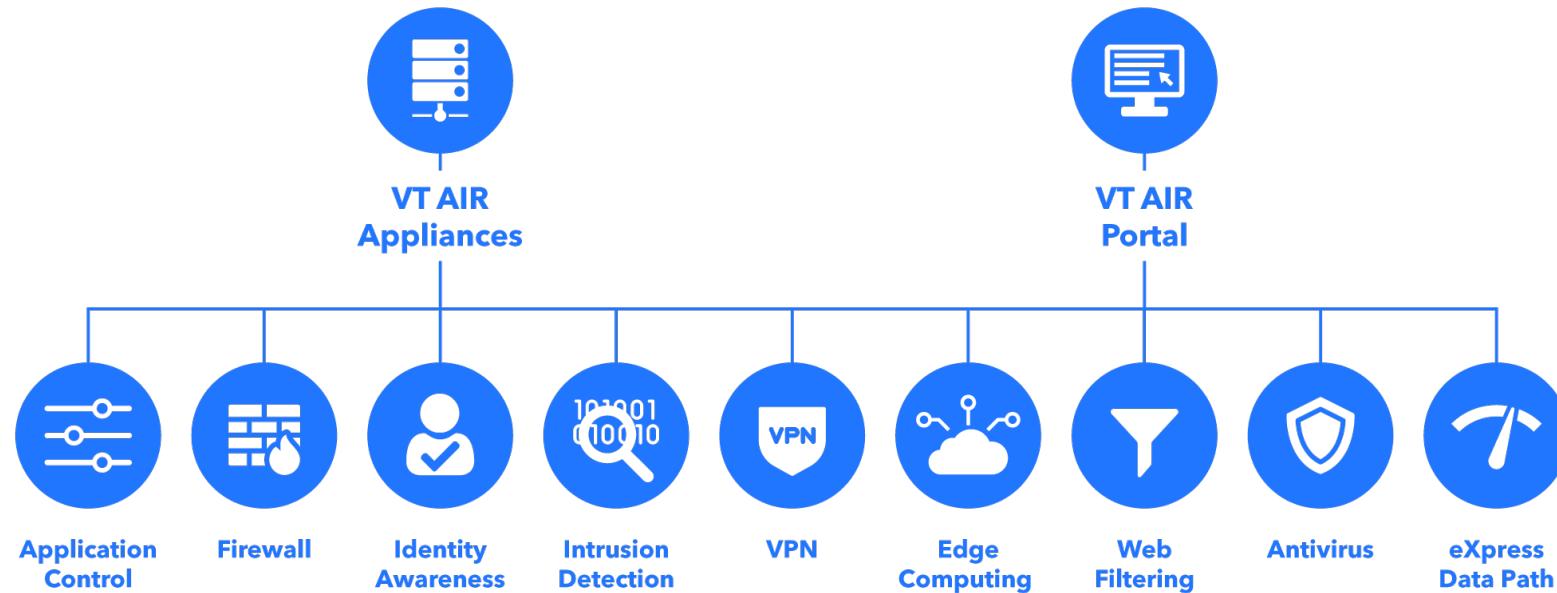
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Quelle: Voleatech GmbH

# VT AIR SOFTWARE FUNCTIONALITY

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# VT AIR XDP OFFLOADER

The new Packet Offloader developed by Voleatech 2022-2023

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### CPU architecture

VT AIR XDP is a software feature compatible with the following architectures:  
`x86_64, arm64, arm32, ppc64, sparc64, mips64, s390x`

### Performance

5x faster than Linux IPTables firewall performance with lower CPU usage

### Compatibility

Can be installed/upgraded to existing hardware

# VT AIR 310 TECHNICAL INFOS

Hardware	
CPU	4 Core ARM64
Storage	16GB eMMC
Memory	4GB DDR4
Network Ports	2x 10Gb SFP+ 4x 1Gb RJ45
Others	Optional: 2x DSL (VDSL oder SHDSL) Optional: 5G/LTE/LTE450 24V DIN RAIL

V  
Our

Performance	
Packages Per Second	~1.300.000 pps
<b>iPerf3</b>	
Firewall	16.00 Gb/s
App Control/Intrusion Protection	1.50 Gb/s
IPSec VPN	1.36 Gb/s (AES-256 GCM)
OpenVPN	320 Mb/s (AES-256 GCM)
Wireguard	1.06 Gb/s


[VT AIR Software Demo](#)

## 1 Security Made in Germany

Entirely developed by Voleatech in-house in Germany.

1

## 2 Personal Support

Best customer support in German, English and Spanish, no call centers.

2

## 3 High Performance

High firewall throughput with industry-leading offloading capabilities.

3

# VT AIR OT/IT FLEXIBILITY



VT AIR 100



VT AIR 600



VT AIR 1200/1500



aufgrund eines Beschlusses  
des Deutschen Bundestages