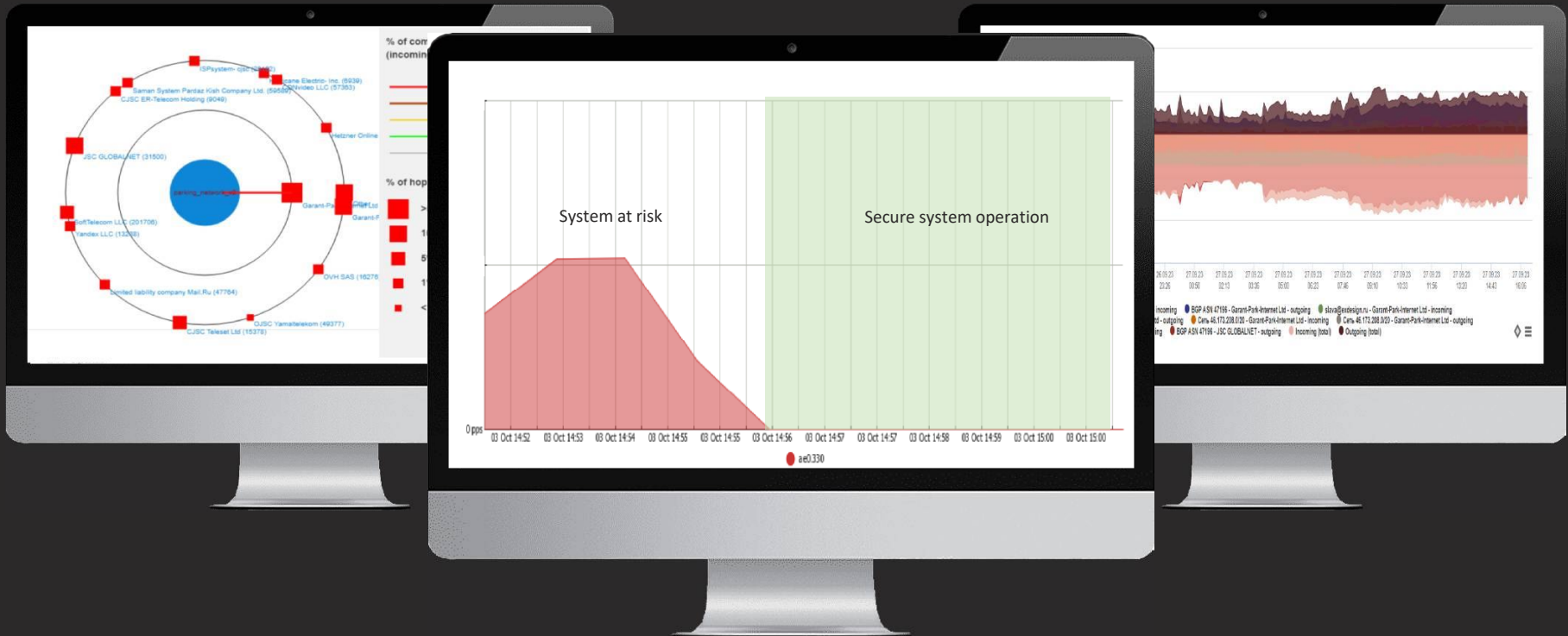


invGUARD

Cyberattack mitigation system



Fall from grace

Worth
\$50

Average price for orchestrating DDoS attack

By conceding an attack you:

Lose clients

Lose reputation

Lose money

Millions of public offers online



Might not be tonight – but there's always tomorrow

If you haven't experienced DDoS-attack this week

99%

There'll be one next week

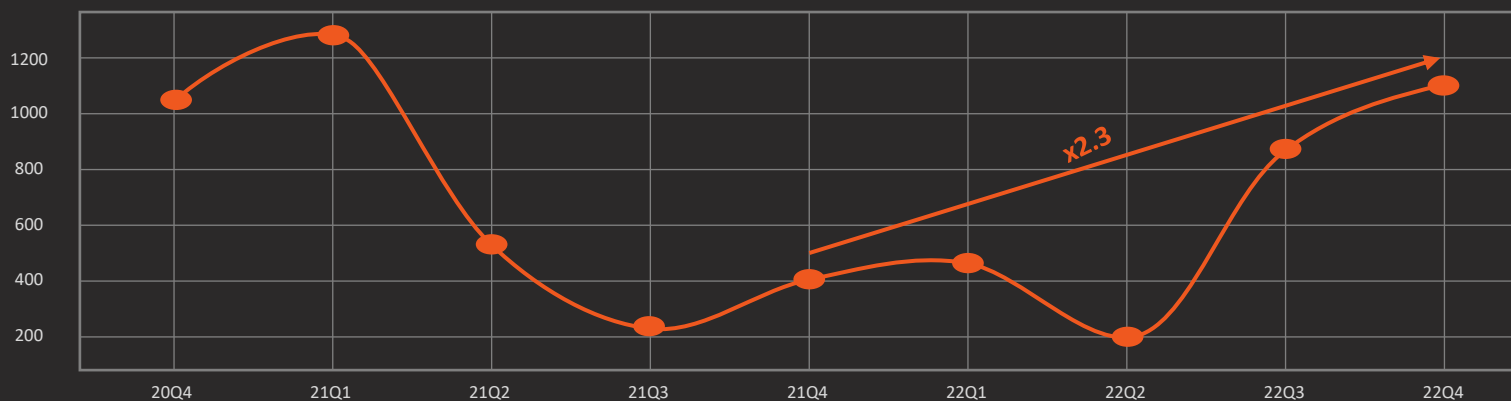
Global threat analysis

+51%

DDoS-attacks in
2022

x2.3

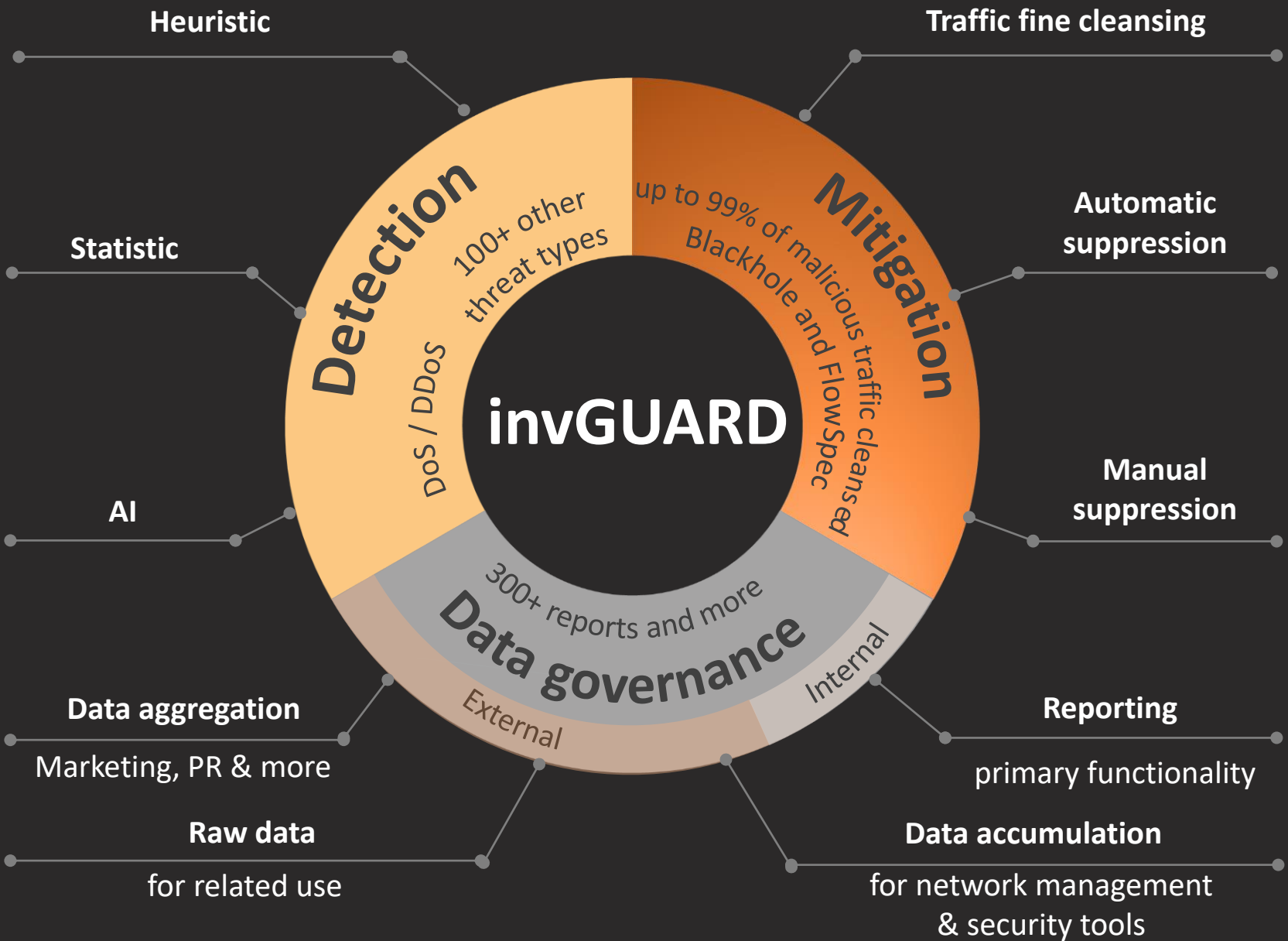
an average growth
of mitigated attacks compared
to Q4 of 2021



Source: radware.com

invGUARD is your solution
since 2011

Anatomy of the **invGUARD**



Currently secured* by invGUARD

*Operating businesses map, 2023

Russia
Belarus
Kazakhstan
Armenia
Georgia
Kyrgyzstan
Uzbekistan
Great Britain
Germany
Lithuania
Latvia
Estonia
Serbia
Slovakia
Turkey
Syria
Egypt
Cuba
Indonesia



A decade of achievements in the domestic market



29%

of overall traffic in
the domestic market

=

55 TBps

of overall mitigated
traffic

&

> 1000

mitigated attacks
daily

A single on-premise instance capabilities

100+

routers in single
management interface per
instance

20000+

managed objects per
instance

2.8 TBps

max volume of
mitigated attack

Best domestic market players choose safety with **invGUARD**



Telecom providers
2 of Top-5



Data center operators
1 of Top-3



Nation-wide
transport service supplier



Owner of MESH network
for 400+ universities



Regional ground transport
service supplier



B2B and SMEs

Business advantages to be secured by **invGUARD**



Protected service uptime
increase to >99.95%



Deployment
as fast as 2 weeks



Basic subscription tariff
includes updates & new features



Price-functionality ratio
twice better than
competitors' offers



Fast-track
customization & fine-tuning



Flexible solution:

- Sole analyzer
- Sole cleanser(s)
- Analyzer + Cleanser(s)



Network integration on-demand



Botnet sensor as side benefit



Ability to launch VAS as extra revenue source

Technical advantages to be secured by **invGUARD**



Precise automatic thresholding due to deep machine learning



Extra data source for network and traffic management



Built-in interoperability with numerous third-party IT security tools



Zero emission on network fault tolerance due to out-of-path design



Ability to reuse x86 spare resources (if any)



Autonomous config'n'forget solution



No extra traffic cleansing delays due to on-site solution

invGUARD suits
any business scale

Scalable solution for giants

Nation-Wide Internet and Cable television Provider

Purchased
invGUARD for: **€ 240 K**

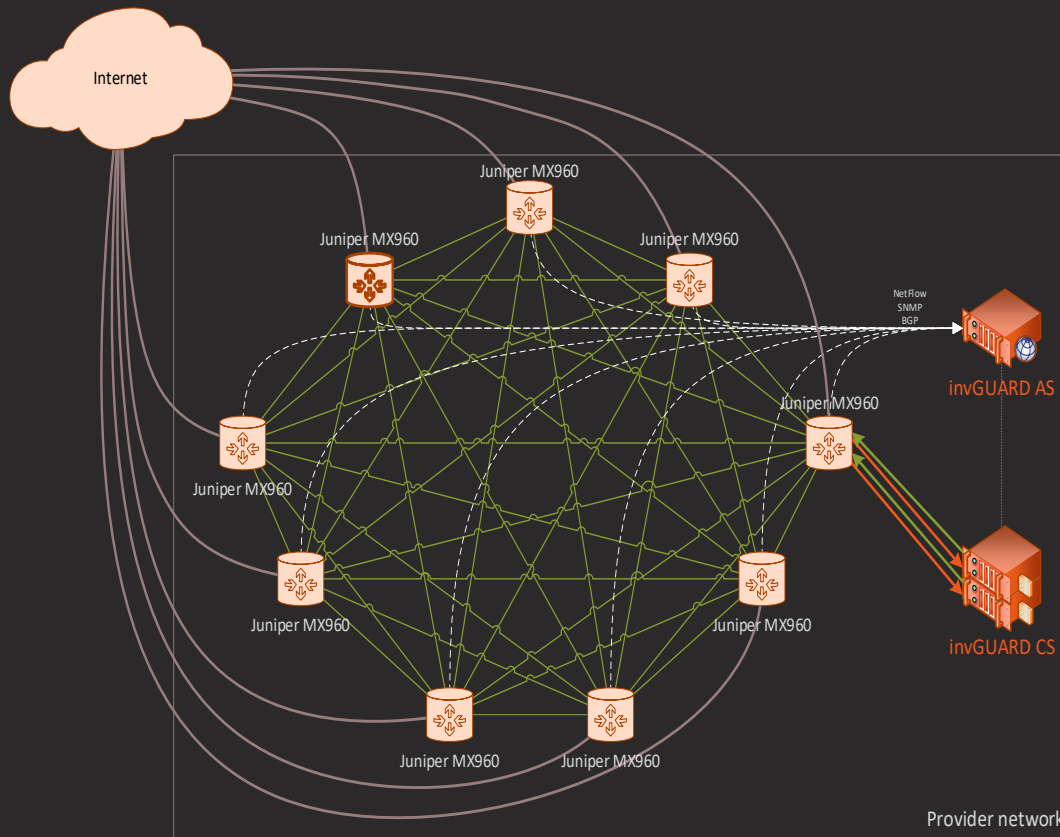
Secured
annual revenue: **€ 576 MM**

Extensive network infrastructure
protection

Providing additional services for the
following customer categories:

- local comm operators
- data centers
- corporate internet & comm users
- end customers using hosting and virtualization services

↳ VAS extra profit from protection



4.5 TBps

Traffic analysis

30

Routers (Juniper)

8,4 M

routes

40 GBps

Traffic clean

+ IPFIX, 100000 flow-packets/sec, BGP Blackhole, BGP FlowSpec, traffic clean-up

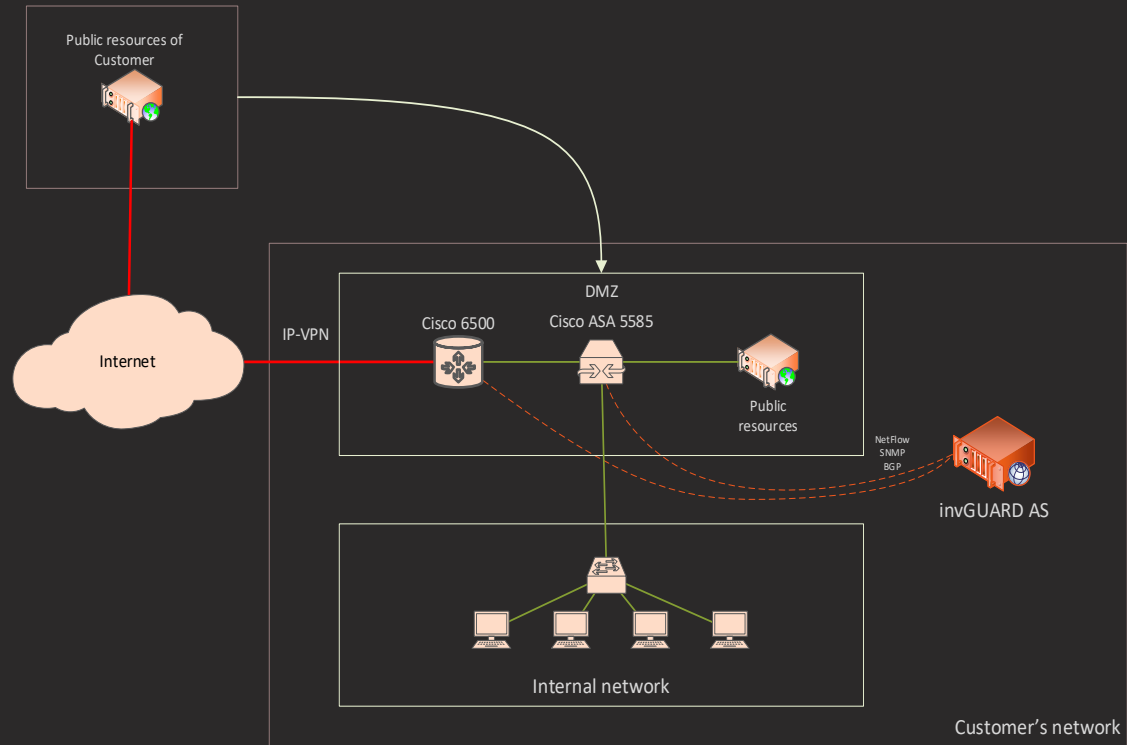
Reasonable solution for SMEs

Corporate customer with a branch office

Purchased
invGUARD for: **€ 48 K**

Secured
annual revenue: **€ 17 MM**

- Encountering and detecting network attacks
- Timely threats notifications
- Network traffic monitoring and distribution
- Web / public resources interaction monitoring
- Broadening protection without exponential cost increase



20 GBps

Traffic analysis

2

Routers (Cisco)

650 K

routes

+ NetFlow v9/IPFIX, 10000 flow-packets/sec, BGP Blackhole

invGUARD innovates
to infinity and beyond

invGUARD keeps pace with progress

Product roadmap for 2023-2025



AI user
profiling



AI
mitigation



De-anonymization
of threats



Implementing
new technology
protocols

Profiling users
via neural network
for traffic
fine cleansing

Mitigation with
embedded deep
machine learning
& neural network

Hi-grade data
on exact harmful
device location

APCS energy protocols
GOOSE, MMS, SV,
IEC 104 and more

Notable progressions

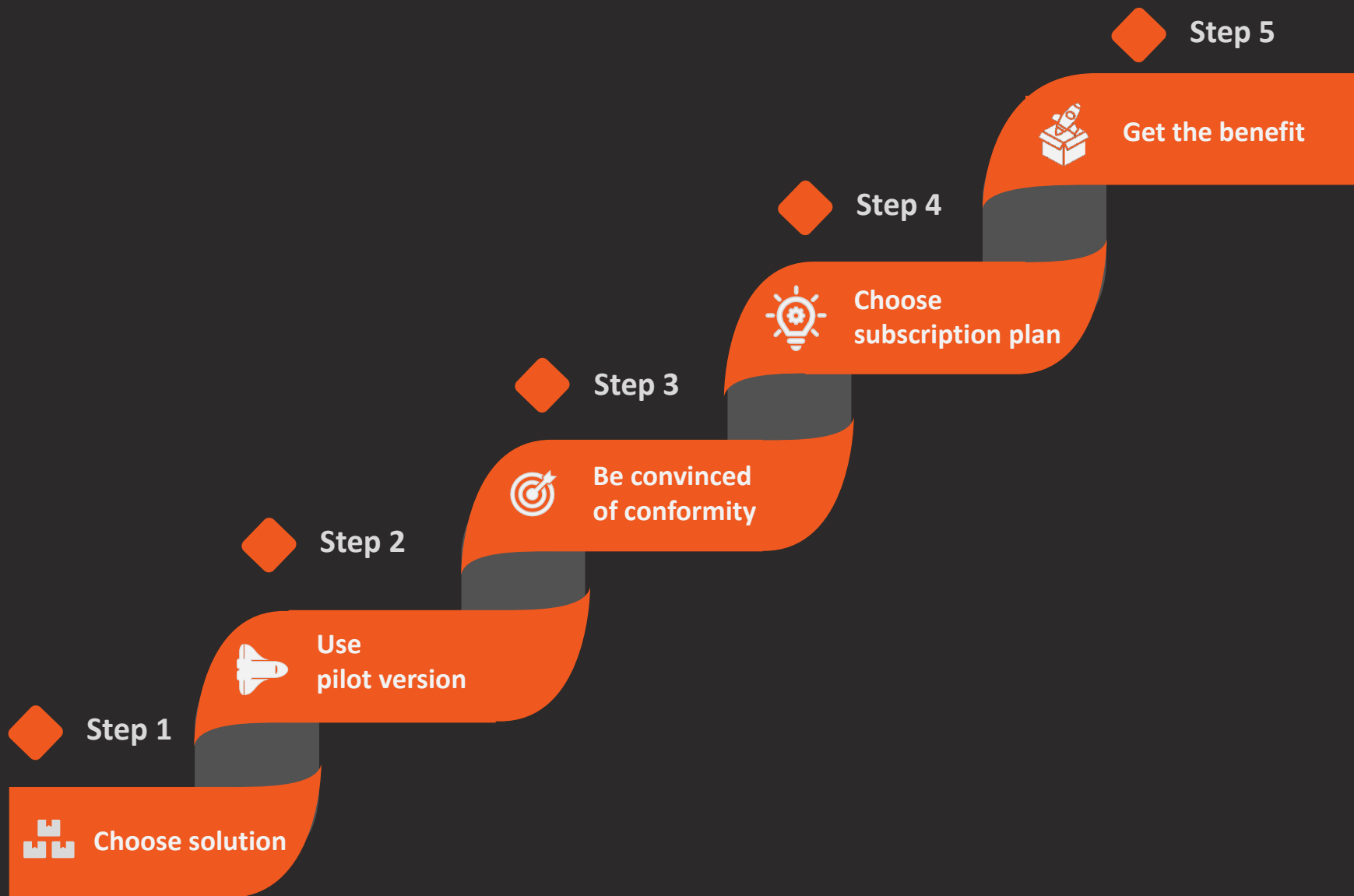
Traffic cleanser
with bandwidth 100+ GBps

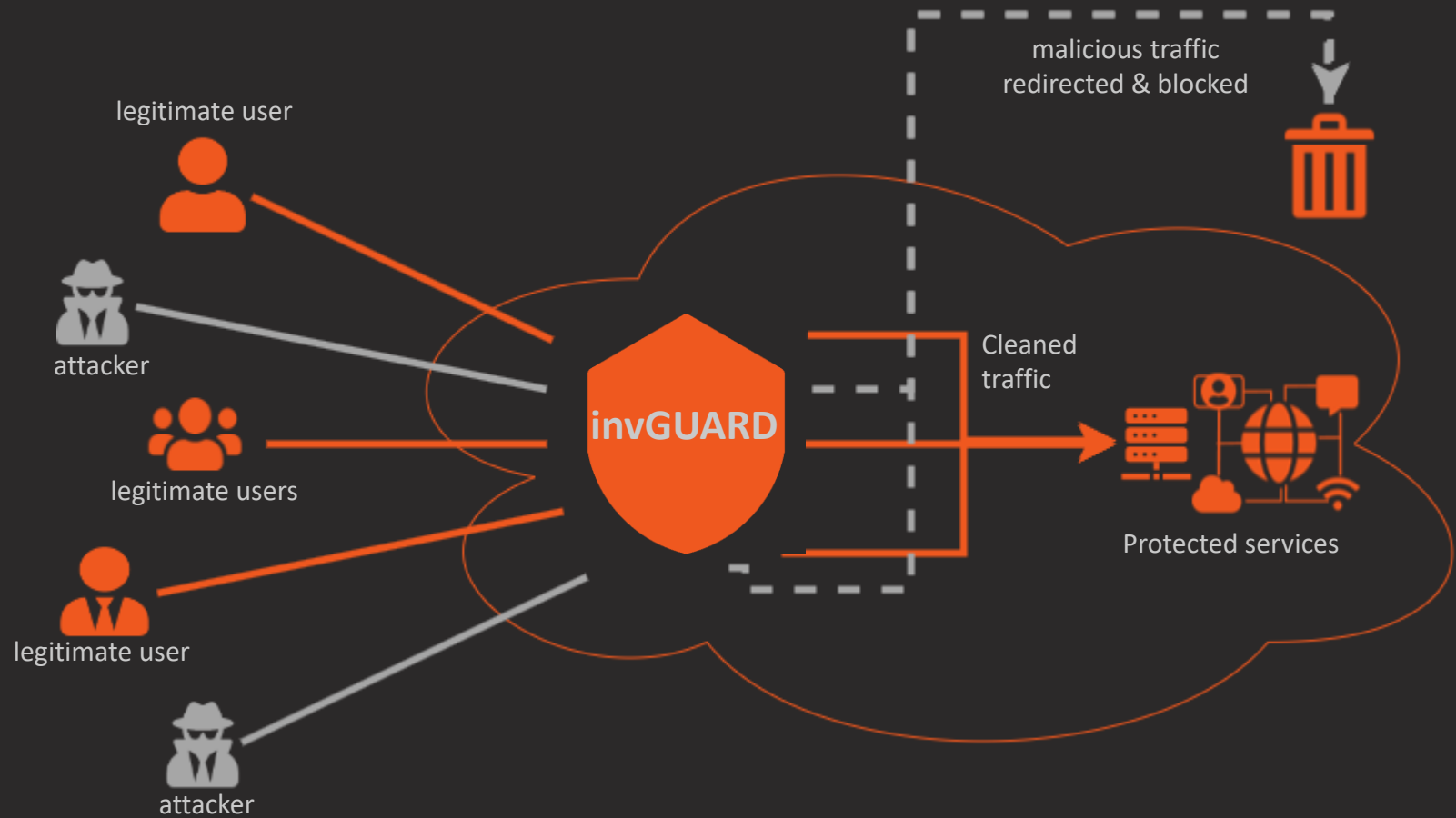
Autonomous operation
of the system

De-anonymization via implemented
anomaly repository

Be secured with **invGUARD**

Straightforward deal with **invGUARD**





Feel secure with **invGUARD**