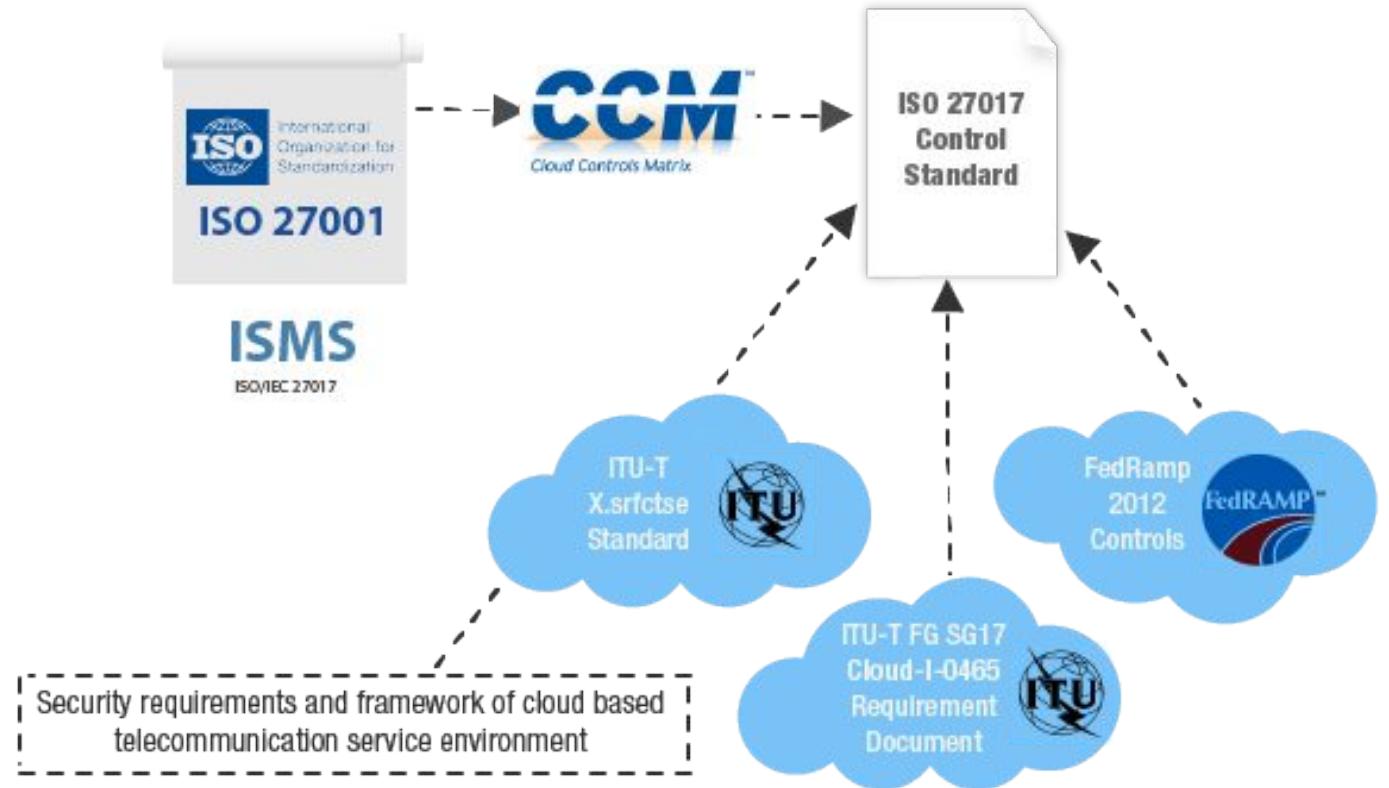# Overview

- About CloudSigma

- Cloud Platform Capabilities

- The Ecosystem Concept & Value-added Services

- Networking Capabilities

- GÉANT Use Cases

- Roadmap 2017

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About CloudSigma

- **Swiss company** founded in 2009, currently with just over 50 employees.

- Leading **European IaaS provider** with a focus on flexibility & performance.

- Direct **connectivity to GÉANT**.

- **Three European cloud locations** in Zurich, Frankfurt and Warsaw, and a few more planned for 2017-2018.

- A **global location network** (Washington DC, Miami, San Jose, Honolulu, Perth, Melbourne and Manila).

San Jose, USA
Washington DC, USA
Honolulu, USA
Miami, USA
Warsaw, Poland
Frankfurt, Germany
Zurich, Switzerland
Manila, Philippines
Perth, Australia
Melbourne, Australia

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Certificates

Next Generation Power Station for Digital Energy

Trusted by Industry Leaders

- European provider
- Year-long experience with clients with the following challenges:
  - big data workloads
  - media volumes
  - e-commerce related scalability
  - SaaS scaling up & automation
  - on-demand testing & research environments

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Our Customers about us

- Neutral and flexible platform

- Higher price-performance ratio through efficient resources purchasing & improved virtual infrastructure configuration

- Excellent customer service & strict SLAs

- Agile and market-driven company culture

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Neutral & Flexible Platform

- Flexible configuration of unbundled resources

- Full sole root/admin access

"With CloudSigma, we are not subject to unrealistic bundled resources as it delivers transparent and efficient resource purchasing." - Patrick Rodies, CTO of Preview Networks.

- Run any x86 OS and application unmodified

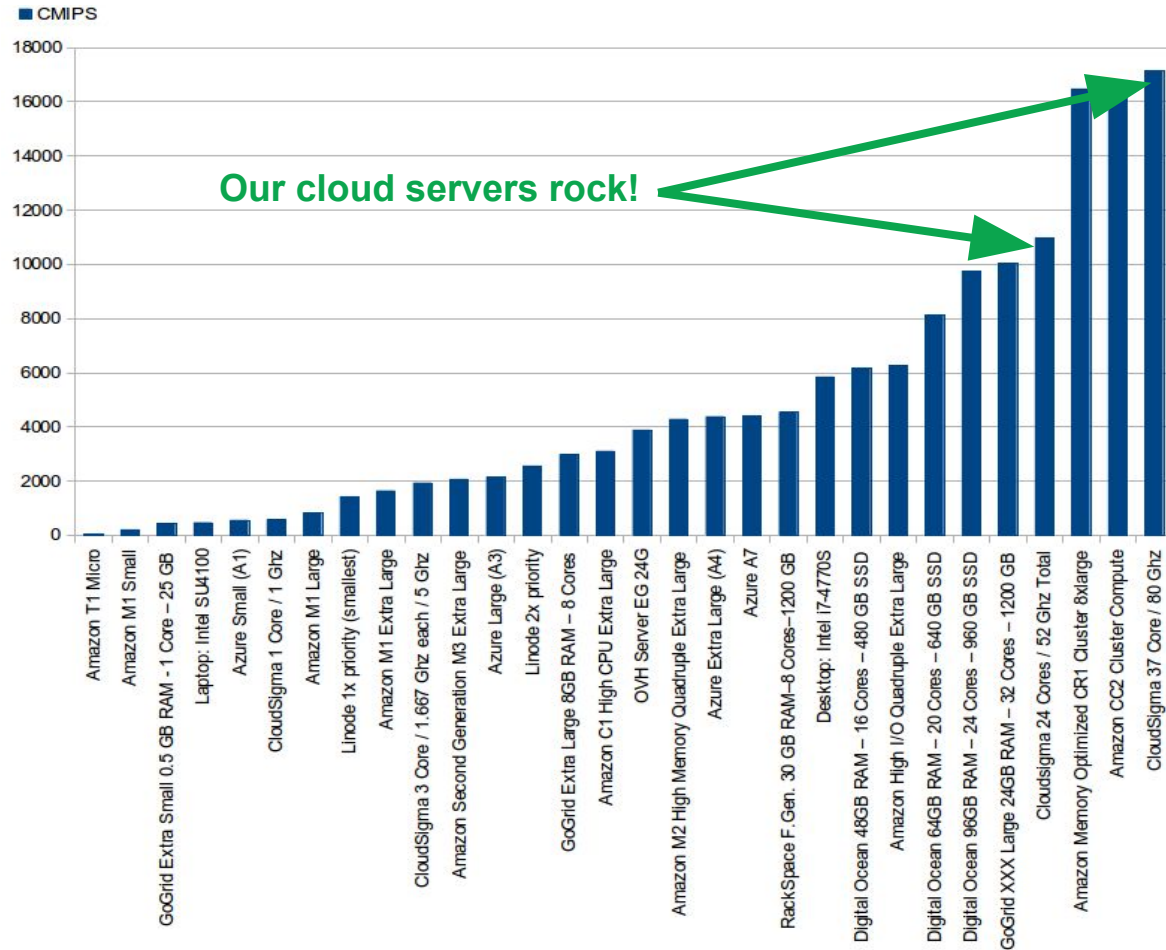- Full compatibility with 'legacy' und new private infrastructure

"Cloudsigma offered everything we needed to deploy our infrastructure 1:1 to the Cloud without a single change to the Picturepark application." - Nick Berthet, CTO of PicturePark.

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Neutral & Flexible Platform

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Higher Price-Performance Ratio

Delivering value to your business   **CloudSigma**

Excellent Customer Service & Strict SLAs

Response time of our 24/7 free technical support

Response time	Percentage
<15s	50%
15s - 30s	26%
30s - 45s	8%
45s - 1m	5%
<1m	12%
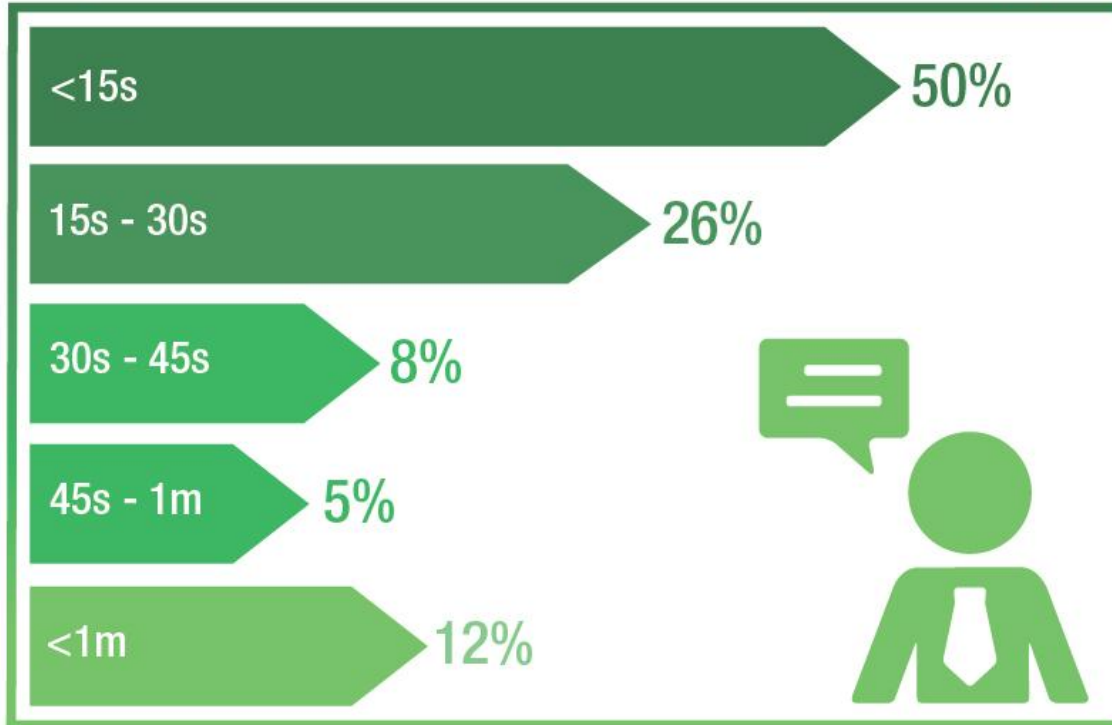
CloudSigma provides 24/7 live support via Telephone, Chat, Email and our Zendesk online ticketing system.

www.cloudsigma.com

"The unprecedented support, high SLA and ability to tailor our virtual machines per our exact needs were our top reasons to choose CloudSigma as our infrastructure partner." - Riccardo Ferrucci, CIO at Genio Group.

"We are very closely connected to CloudSigma's technical and support staff. We always get the important answers right away. - Nick Berthet, CTO of PicturePark.

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Agile & Market-driven Company Culture

- The whole product pipeline of CloudSigma is defined following our customer requirements

"Very quickly at your end your networking guys changed the routing from what we call the 'normal' internet connection to the GEANT connectivity and this is how we were able to achieve the bandwidth we needed." - Ricardo Correa, ECMWF.

- The entire work of all devops teams is organized in bi-weekly cycles

"I really appreciate that CloudSigma tackles issues at the core and works on eliminating them at the core." - Stepan Seycek, CTO at BOC Group.

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The Ecosystem Model

Full Service Spectrum
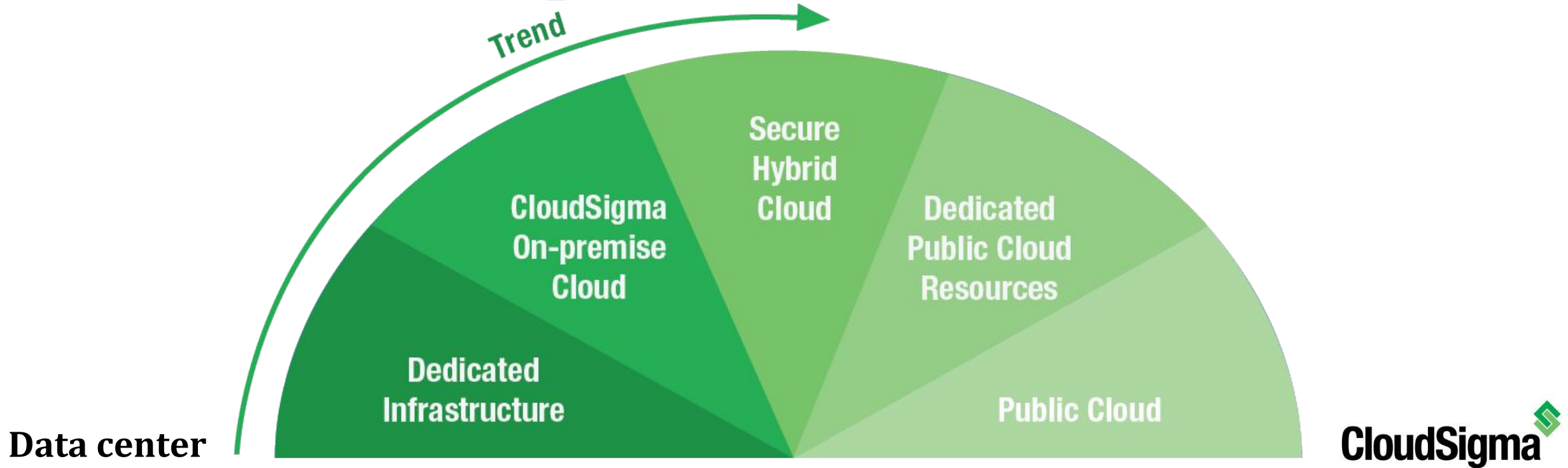
Combining our cloud offering with the extensive capabilities of our data center partners, our customers can receive the full spectrum of infrastructure delivery.

Your Advantages

- Create powerful unified private/public infrastructure deployments and strategies

- Instantly scale-up of your physical infrastructure

- Enjoy <1ms latency between your private deployment and CloudSigma

- Utilise networking-as-a-service products to boost connectivity & security

- Mirror your private infrastructure to the cloud using the CloudSigma disaster-recovery-as-a-service

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The Hybrid Cloud Infrastructure
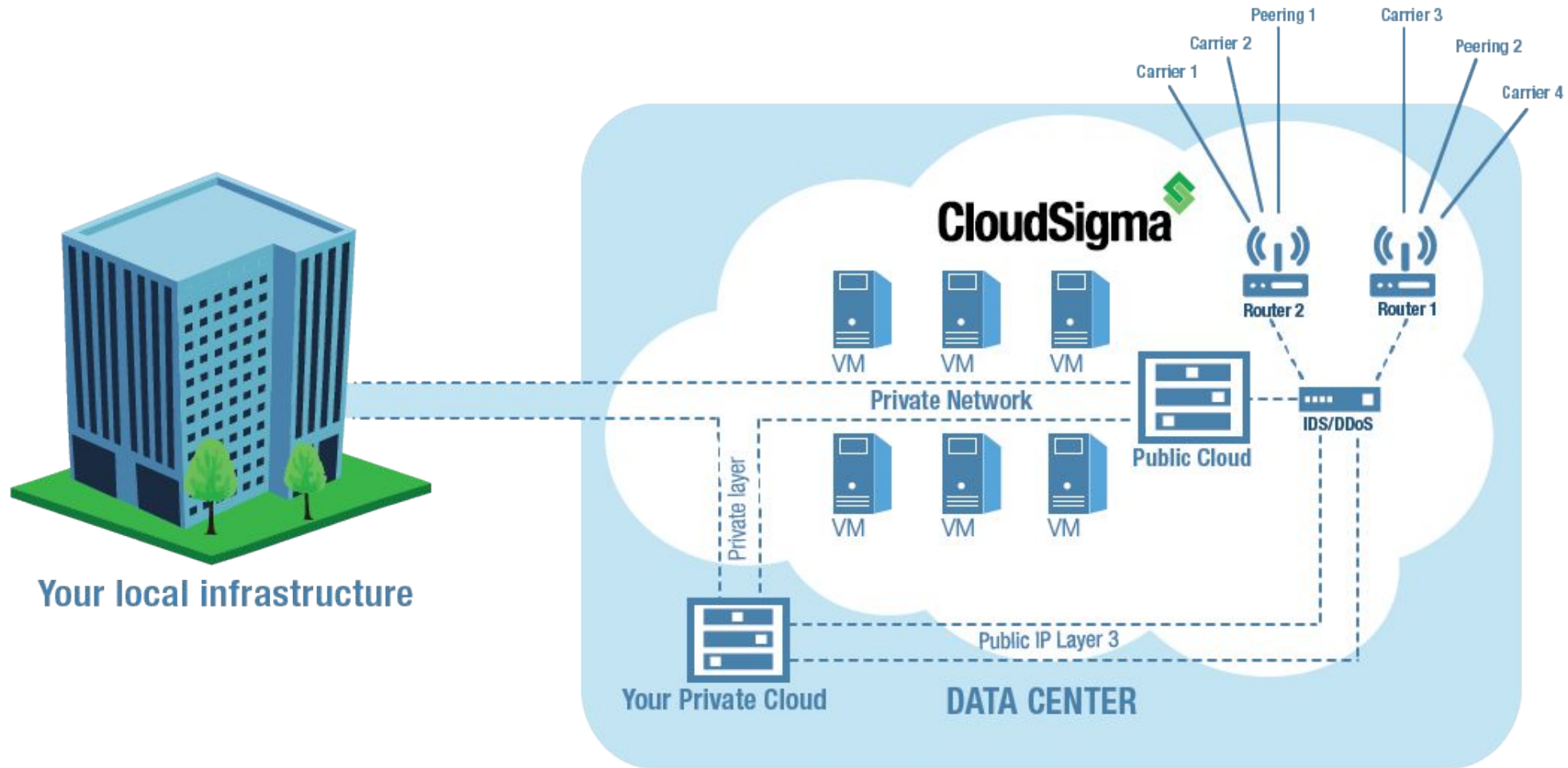
High Availability

Disaster-Recovery-as-a-Service

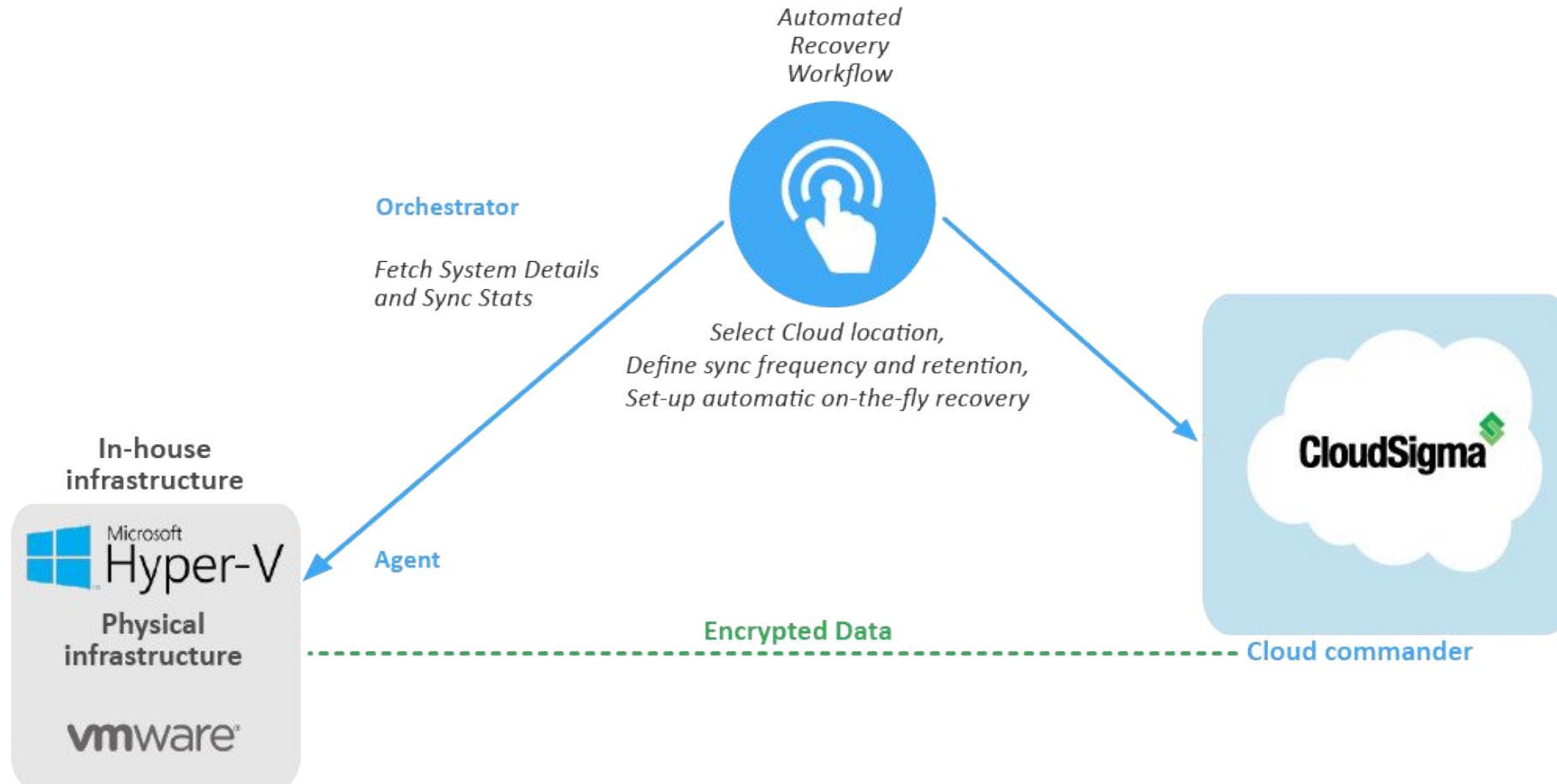- Mirror virtual or physical in-house infrastructure to the cloud

- Create an entire shadow DR environment with a complete automatic recovery workflow

- An application independent solution that works with all Windows & Linux environments

- Official release in Q2 2017

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DRaaS System Component Overview

Automated
Recovery
Workflow

Orchestrator

Fetch System Details
and Sync Stats

Select Cloud location,
Define sync frequency and retention,
Set-up automatic on-the-fly recovery

In-house
infrastructure

Microsoft
Hyper-V

Physical
infrastructure

vmware®

Agent

CloudSigma

Encrypted Data

Cloud commander

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Supported Business Models

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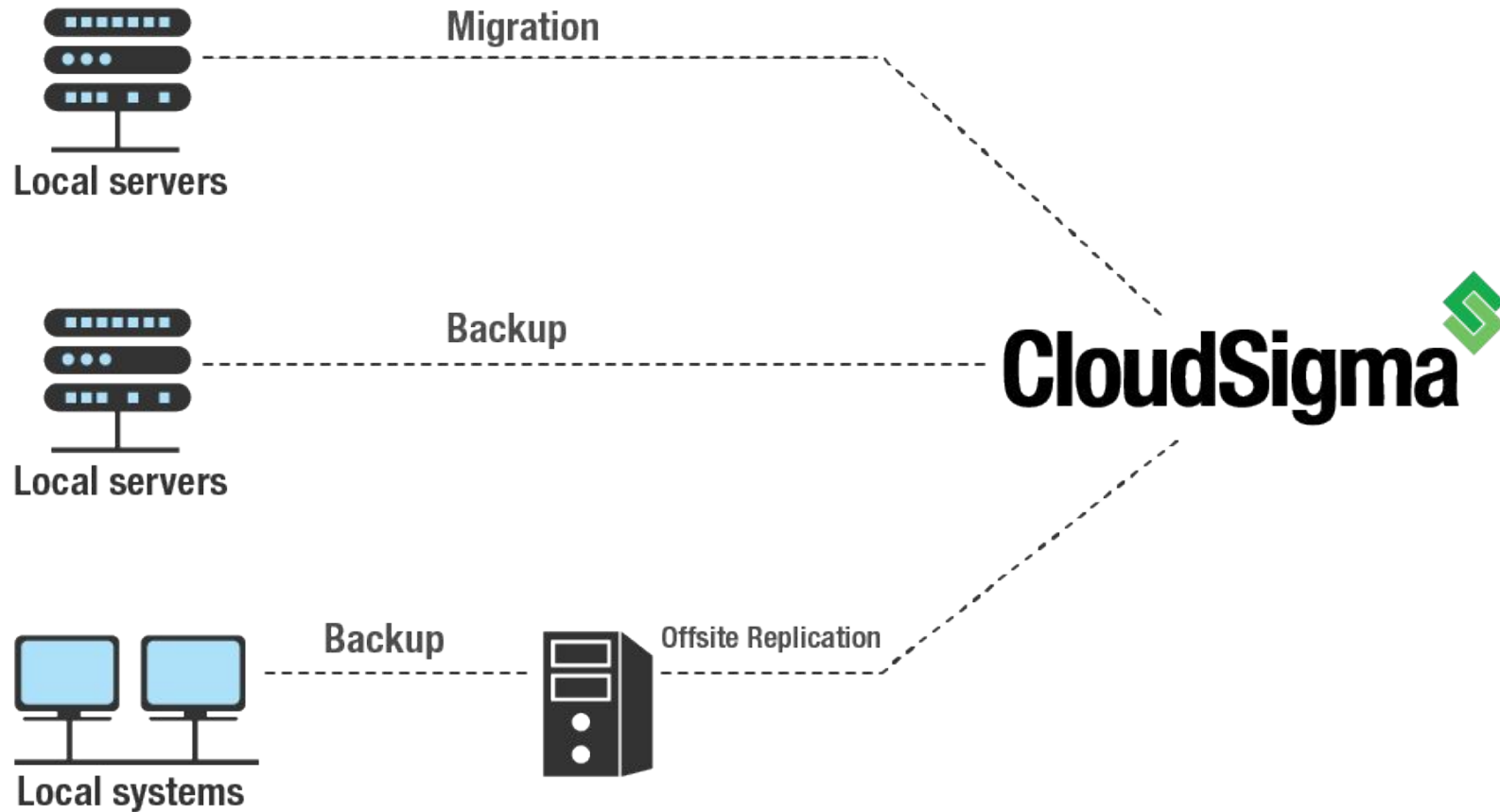
Networking Capabilities

- CloudSigma maintains carrier-neutral 10Gbps Internet pipes across multiple suppliers into the network backbone as well as direct peering lines to major Internet exchange points.

- We work with the following major connectivity carriers Level3, Cogent, SwitchNap's LVS data center carriers, AMS-IX, Tinet, De-CIX and Telia.

- The connectivity between racks is dual 40Gbps with dual 10 Gbps internally within each rack to the node level.

- In addition, CloudSigma has a direct private peering to GÉANT.

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Austrian Success Story with

The Challenge

Moving **from an in-house to an IaaS-based environment**,
in order to respond to market requirements
and offer a **global and scalable online-based SaaS solutions**

The Solution

flexible networking   **European company**

excellent staff

top hardware performance   **low latency**

The Change   *"Trust in persistent performance, technical support you can reach in under a minute, and multiple locations, are the main reasons for choosing CloudSigma."*

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Networking Success Story with ECMWF

EUROPEAN CENTRE FOR MEDIUM RANGE WEATHER FORECASTS

- The challenge: ECMWF needed to send **large volumes of weather forecast data** to Member States globally **at exact scheduled times**

- During a POC, ECMWF needed to sustain **up to 3Gbps of real application data transfers** from ECMWF to the CloudSigma cloud installation.

- The results as reported by ECMWF are presented below:
  - A single TCP stream from 1 host to 1 VM is aprox 500 Mbps
  - Multiple TCP streams from 1 host to 1 VM is aprox 2 Gbps
  - Multiple TCP streams from multiple host to 1 VM is aprox 3.2 Gbps
  - Multiple TCP streams from multiple host to 1 VM is aprox 3.2 Gbps
  - Multiple TCP streams from multiple host to 3 VM is aprox 7 Gbps

"With CloudSigma, today we can offer to our Member States something we could not offer before."

Ricardo Correa, ECMWF.

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Offer 1: Research Departments

- Challenge: a combination between predictable ICT capacity and unplanned ad-hoc ICT capacity requirements from various research projects and faculties.

- Solution: CloudSigma offers two purchase models - subscription and pay-as-you-go burst pricing:
  - Subscriptions are the cost-efficient option used for the predictable capacity. Pay-as-you-go burst is applied every 5 minutes allowing for ad-hoc and short-term scalability.

  - Combination between subscription (for permanent workloads) and scalable on-demand cloud resources (for any on-demand research computing needed) is also possible.

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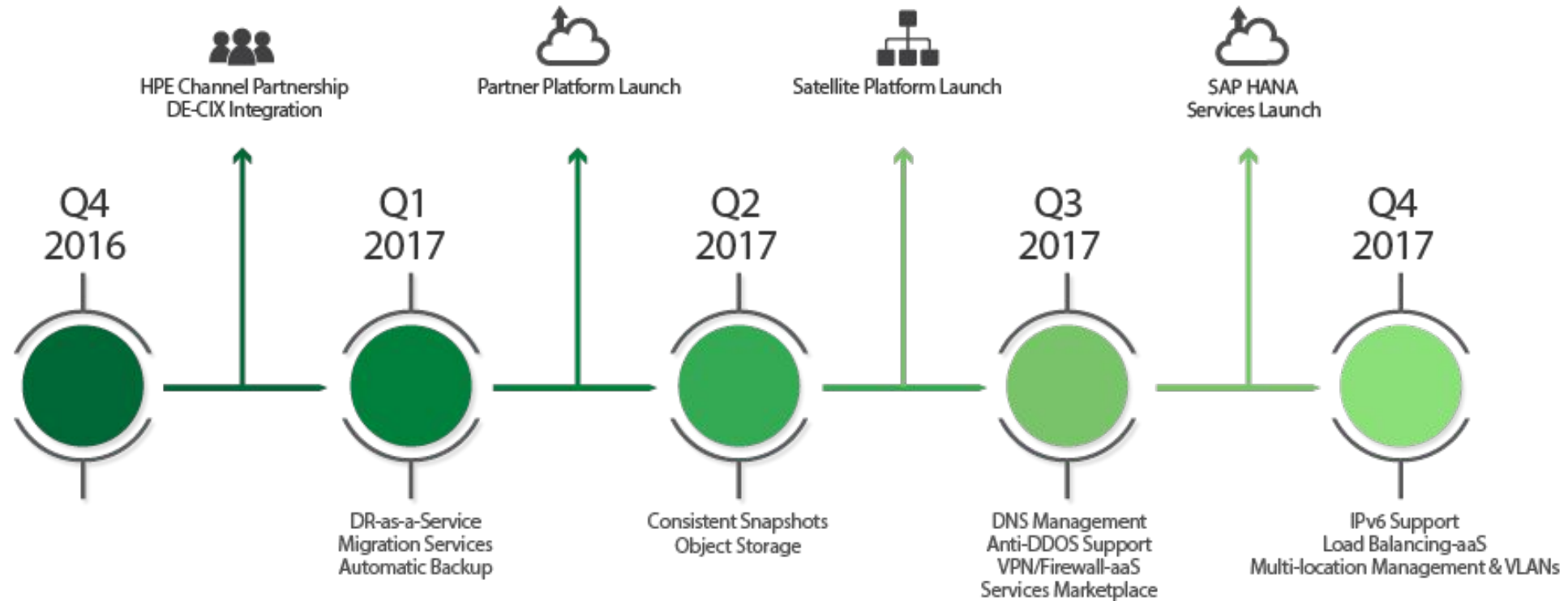
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Offer 2: Uni Labs

- Challenge: professors need a large number of limited cloud accounts, which the students can use for experiments in their IT/cloud computing classes. The accounts should be limited in capacity to avoid abuse and overbill.

- Solution: CloudSigma already has a similar standard offering - the trials:
  - Via a promo code the students can get an account with the exact amount of resources and a pre-installed OS required by the professor.
  - If a student want to use more resources, he will have to add funds himself, an unexpected overbill is not possible.
  - CloudSigma already works successfully with professors from Sheffield University and Dublin City University based on such a model.

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Roadmap 2017

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Thank you for your attention!

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www.cloudsigma.com