Welcome to

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8th Data Center Infrastructures
Networking and Services
Conference

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Agenda (Hall C2)

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09:30 - 10:00	**Welcome keynote speeches by:** **Dimitris Bakakos, Space Hellas** **Steve Luczkiw, Panduit** **Dimitris Filippou,** I2QS **Lambros Kostaras,** ESB agents **Theodoros Theodoris, Legrand**
10:00 - 10:40	**SPACE HELLAS presentations** **Tassos Igoumenidis** , Business Development Manager / Space Hellas ***«Application Centric Data Center»*** **Giannis Papaioannou,** Infrastructure Product Manager / Space Hellas ***«Case Study – HEDNO Data Center Implementation»***
10:40 - 11:20	**PANDUIT - KAFKAS presentation** **Rick Pimpinella**, Fellow Optical Research Engineer / Panduit ***«The future of optical fiber in Data Centers»***
11:20 - 11:40	**I2QS presentation** **Giampiero Sforte,** Sales Director, Enterprise Division / CommScope Inc. ***«Augmented Reality – A historic Innovation that Bridges the Gap between the Digital and the Physical Worlds»***

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11:40 - 12:00	**ESB Agents presentation** **Philippe Patinote,** Commercial Director EMEA / Softing IT Networks ***«Ethernet Speeds Qualifying: How to Test the True Speed Limit of Your Existing LAN»***
12:00 - 12:40	**Legrand presentation** **Gautier Humbert,** RCDD, Standards coordinator for Legrand Digital Infrastructures ***«From 10G to 400G analysis of the past current and future infrastructure solutions»***
12:40 - 13:00	**Netscope presentation presentation** **Rikard Momme,** Distribution Account Manager / Fluke Networks ***"Copper Testing Best Practices Realize the Valuein modern Copper Infrastructure"***
13:00 - 13:20	**NIGICO - VERTIV presentation** **Tomislav Saric,** Sales Manager,IT & Edge Infrastructure Central Southern Europe / Vertiv ***"Defining the Edge and the Impact on the Data Center"***
13:20 - 13:40	**Rittal presentation** **Thanos Dazelidis,** Sales & Project Manager / Rittal **Theodoros Sakellariou,** Sales Manager / FSysTel ***"High density Data Centers on Buildings - Aggemar project"***
13:40 - 14:00	**Coffee Break**

14:00 - 14:15	**ESB Agents presentation** **Jaime Bara,** Sales Channel Manager EMEA / Ekahau ***"Bad Wi-Fi vs Good Wi-Fi"***
14:15 - 14:45	**ViRA presentation** **Christina Chrysanthopoulou,** Architect engineer, Art Director & Co-Founder of ViRA **Renia Papathanasiou,** Co-Founder & Managing Director of ViRA ***«Extended reality as a powerful marketing tool»***
14:45 - 15:05	**BICSI presentation** **Gautier Humbert,** RCDD, BICSI District chair for Mainland Europe ***"ANSI/TIA, and ANSI/BICSI. What are the relationships, and where are we heading"***
15:05 - 15:25	**I2QS presentation** **Dimitris Filippou**, Technical Director / I2QS ***"Zinc Whiskers: What Nobody's Telling You"***
15:25 - 16:05	**Keynote presentation** **Dr. Antonios Lalechos,** Leadind R&D Consultant / LePlan ***"Transfering Megaproject Expertise in cabling & infrastructure design into modern Data Center and smart building"***
16:05 - 16:30	**Panel Discussion, Q&A**

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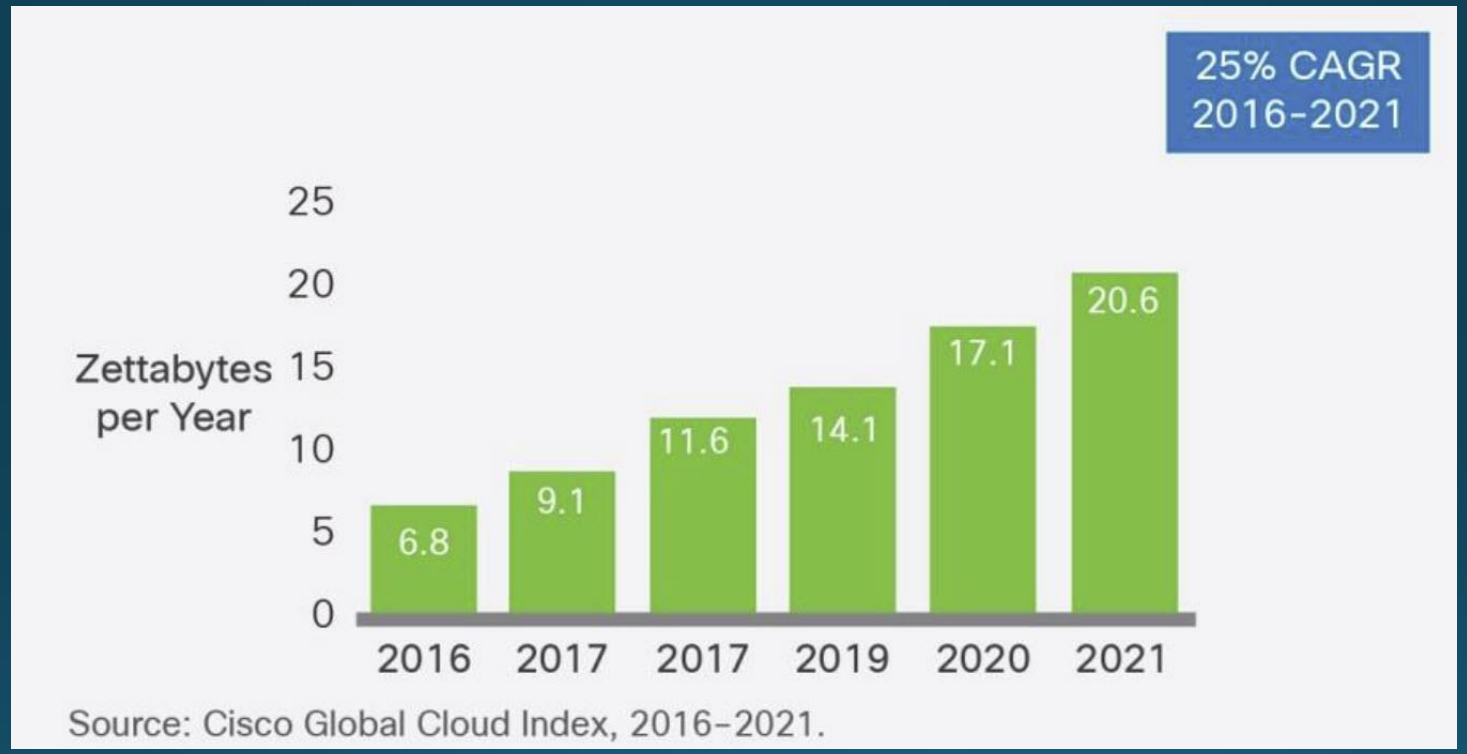
DC & IP Traffic Growth

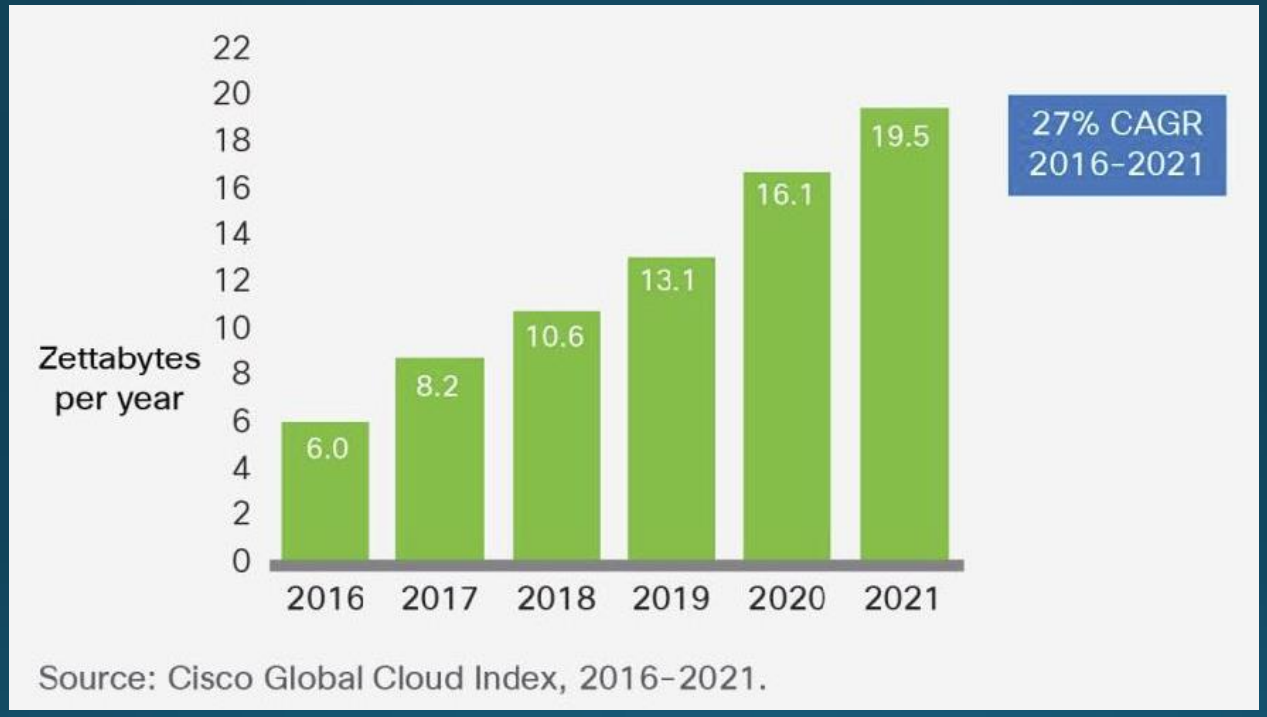
Data Center IP Traffic growth projections



- **Total Data Center IP traffic** will be 20.6 Zettabytes in 2021, it will grow 3-fold at a CAGR of 25%*.

* Cisco Global Cloud Index 2016-2021, Revised Feb18

Cloud IP traffic growth projections



- **Global Cloud IP traffic will** reach 19.5 ZB in 2021, 3.3x times more than in 2016 growing at a CAGR of 27%*.
- **Global Cloud IP traffic will account** for more than **95% of total data center traffic by 2021***.

* Cisco Global Cloud Index 2016-2021, Revised Feb18

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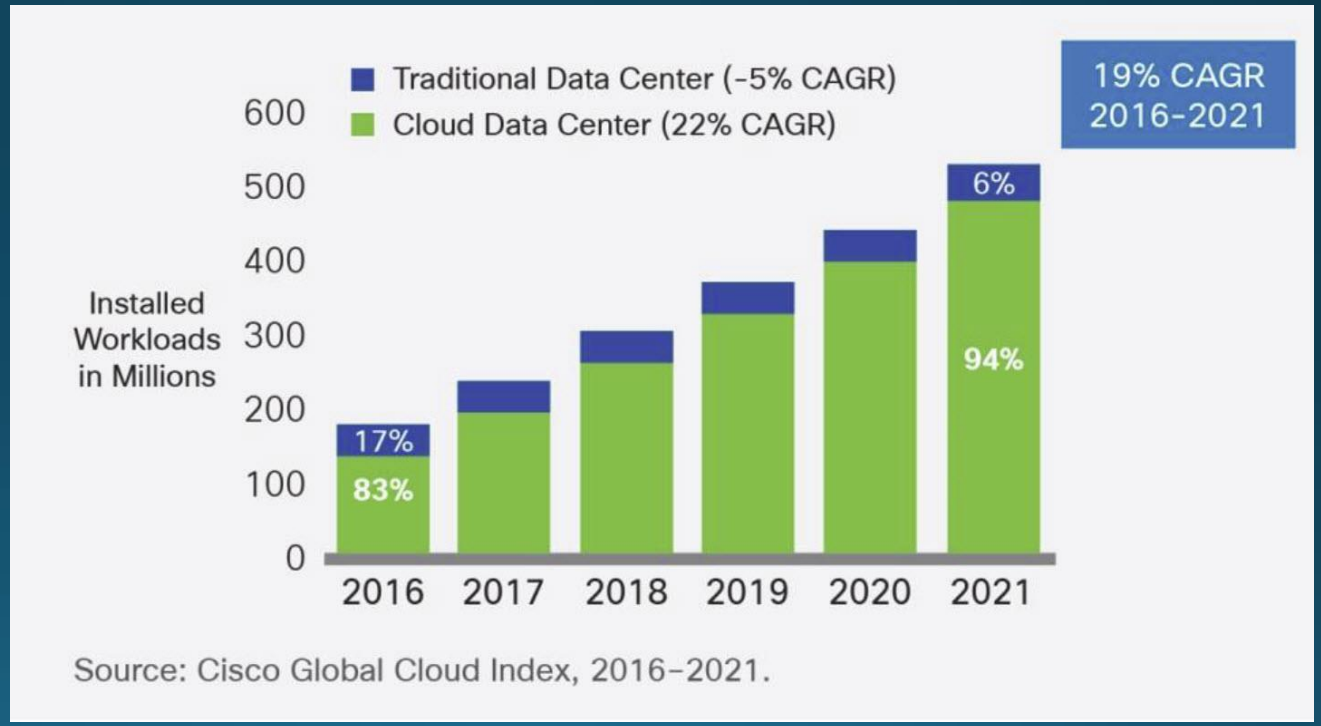
Workloads growth projections

- By 2021, **94% of workloads** will be processed by **cloud data centers**; only 6% will be processed by traditional data centers*.

- Cloud workloads will nearly triple (x2.7) from 2016 to 2021;
- Traditional DC workloads will decline at a CAGR of -5% over the same period*.



* Cisco Global Cloud Index 2016-2021, Revised Feb18

Hyperscale DCs growth still strong

- **Hyperscale Data Centers** will represent **53 % of all installed data center servers** by 2021. They will account for 85% of the public cloud server installed base in 2021 and for 87% of the public cloud workloads*.

By 2021, Hyperscale DCs Will Constitute/Support:		Today:
53%	of all data center **servers**	27%
69%	of all data center **processing power**	41%
65%	of all **data** stored in data centers	51%
55%	of all data center **traffic**	39%

Source: Cisco Global Cloud Index, 2016-2021.

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* Cisco Global Cloud Index 2016-2021, Revised Feb18

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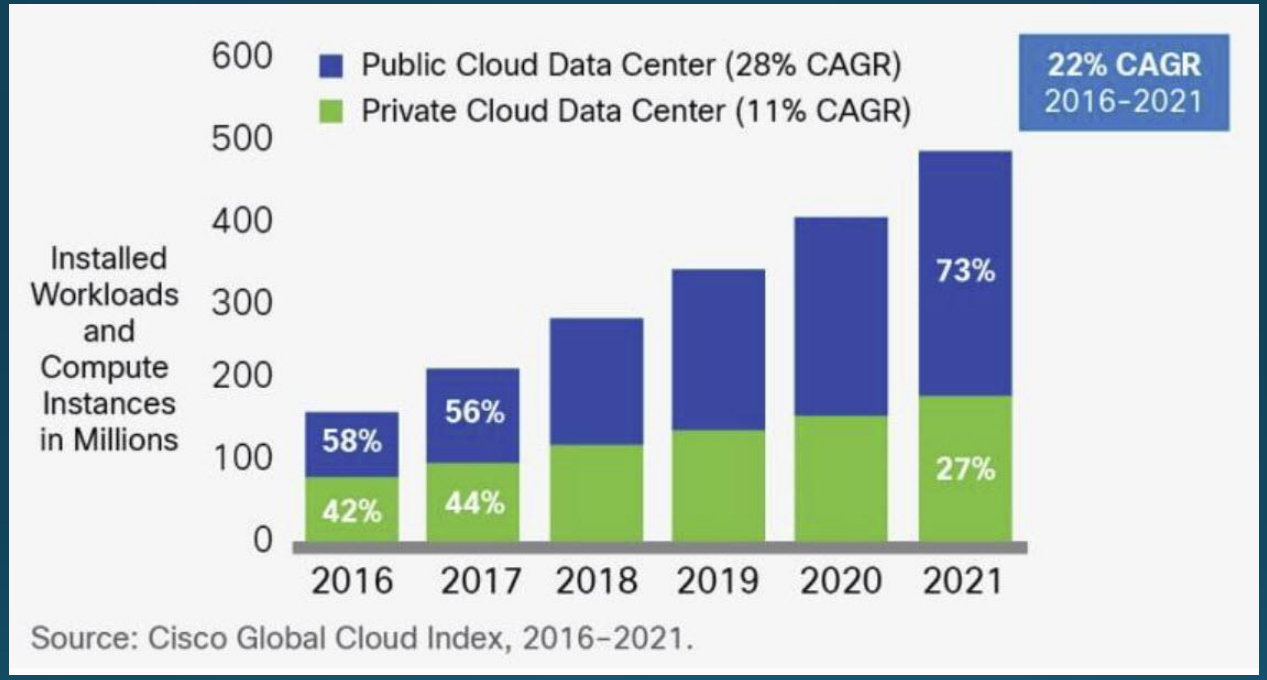
Public vs. private cloud growth



- **Public Cloud workloads will** grow at a CAGR of 28% while **Private Cloud workloads** will grow at a CAGR of 11%.
- **Public Cloud will host 73% of the total installed workload base by 2021***.

* Cisco Global Cloud Index 2016-2021, Revised Feb18

Cloud service trends

- **SaaS workloads will** have 75% percent share of all cloud workloads growing at a CAGR of 23%. **PaaS** will grow equally fast but will gain a share of 9%*.

* Cisco Global Cloud Index 2016-2021, Revised Feb18

DCs & the Environment

Energy footprint considerations

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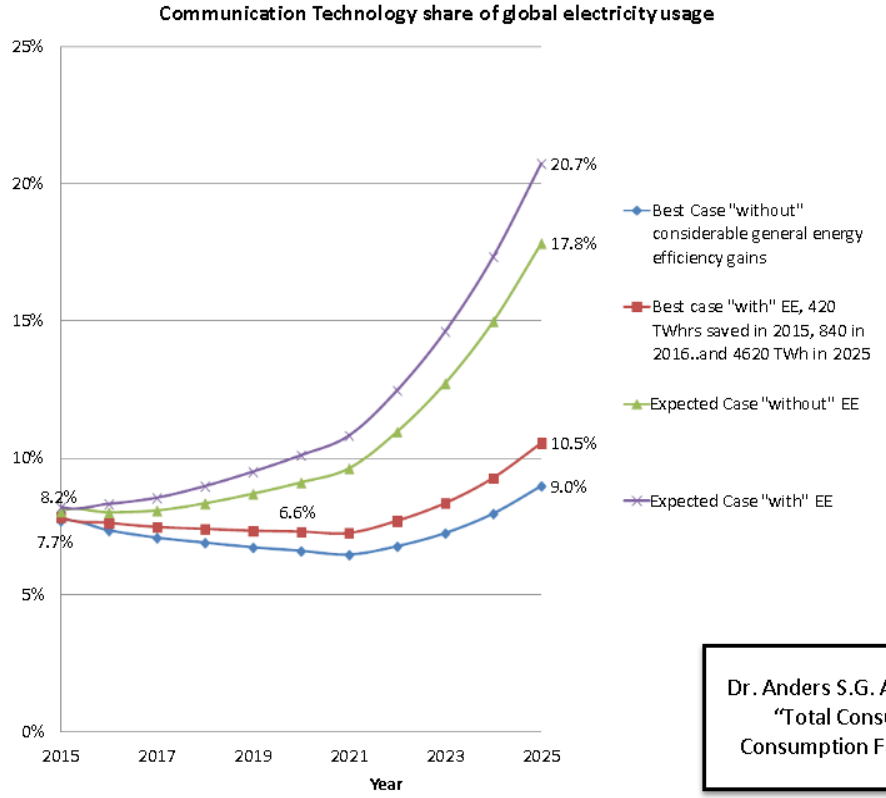
Energy Usage & Emissions trends

- **The ICT industry** is expected to produce up to **3.5% of global emissions by 2020,** and up to **14% by 2040** (Climate Home News).
- **By 2025, ICT would use up to 20% of the world's energy** (Dr. Anders S.G. Andrae / Huawei, Total Consumer Power Consumption Forecast, Oct17).
- In 2017, only **US based DCs** used up more than **90 billion KWh** of electricity. On global scale, DCs utilized about **416 TWh**, or approx. **3% of all electricity** generated on the planet (vXchnge).

The share of ICT of global electricity usage: 2015 to 2025 with and without high global energy efficiency gains



Dr. Anders S.G. Andrae (Huawei), "Total Consumer Power Consumption Forecast", Oct17

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Let’s Begin