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AN INNOVATIVE HI-TECH COMPANY
IN THE ICT INDUSTRY

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IT SOLUTION ARCHITECT

TEAM LEADER
ICT CONSULTING

GEORG HERBST

AGENDA

- BRENNERCOM
- NETWORKING
  - Overview
  - MPLS
  - Internet
  - Technology
  - Services
  - Business Models
- INTELLIGENT DATACENTER
  - Design
  - Service Models
  - Products
  - Technology
  - Use Case
- CERTIFICATIONS
  - Organization level
  - Staff level

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FOUNDED IN 1998

200 EMPLOYEES

REVENUE 2013: 40 MILLION EUROS

RIYADH
MUNICH
INNSBRUCK
BOLZANO
TRENTO
TRIESTE
MILAN
VERONA
ROME
CATANIA

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HEAD OFFICE IN **BOLZANO** (NORTH OF ITALY)

7 BRANCHES IN **ITALY**, 1 IN **AUSTRIA**,1 IN **GERMANY** AND 1 IN **SAUDI ARABIA**

BRENNERCOM PLAYS A BRIDGING ROLE
BETWEEN **NORTHERN ITALY AND THE GERMAN-SPEAKING WORLD**

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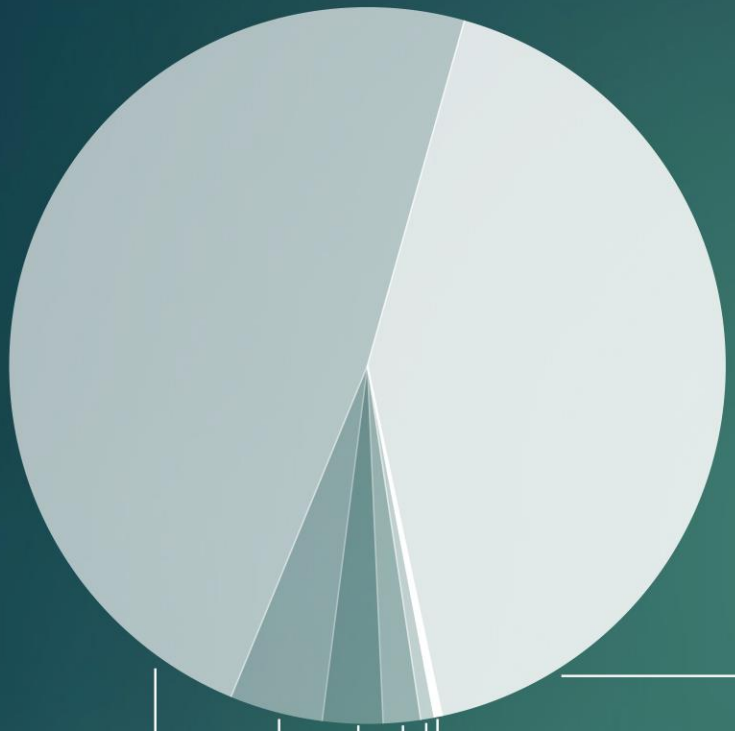

THE COMPANY CONSISTS
OF PARTNERS FROM BOTH
THE PUBLIC
AND PRIVATE SECTORS

SHARE CAPITAL
23.736.000 €

Provincia Autonoma di Bolzano – Alto Adige
42,354%

Acaba di Dr. Ing. A. Guariello & C.
0,217%

Karl Manfredi
0,428%

Azienda Servizi Municipalizzati di Bressanone
1,739%

Autostrada del Brennero
2,713%

Selfin
4,213%

Gruppo Athesia
48,335%

Dr. Ferdinand Willeit
President - Brennercom SpA
(1998 - today)

Dr. Karl Manfredi
CEO
(2001 - today)

brenner com
brenner com Tirol
55%
2006
brenner com Deutschland
100%
2009
TeAA NETWORKS
100%
2011
met Italy
69%
2013
met Saudi Arabia
90%
2014
TRENTINO NET
100%
2014

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brenner△com Tirol	ICT PROVIDER AND CONSULTING SERVICE IN AUSTRIA, DATA CENTER IN INNSBRUCK
brenner△com Deutschland	ICT PROVIDER IN GERMANY
TeAA NETWORKS	PROVIDER OF COMMUNICATIONS TECHNOLOGY SOLUTIONS FOR THE HOSPITALITY INDUSTRY; SPECIALIZED IN PLANNING AND REALISING FIBRE OPTIC NETWORKS
met Italy	COMPANY SPECIALIZED IN PLANNING, REALISING AND MANTAINING OPTICAL FIBRE NETWORKS
TRENTINO NET	PROVIDER OF COMMUNICATIONS TECHNOLOGIES AND CONSULTING SERVICE
met Saudi Arabia	COMPANY SPECIALIZED IN PLANNING, REALISING AND MANTAINING OPTICAL FIBRE NETWORKS

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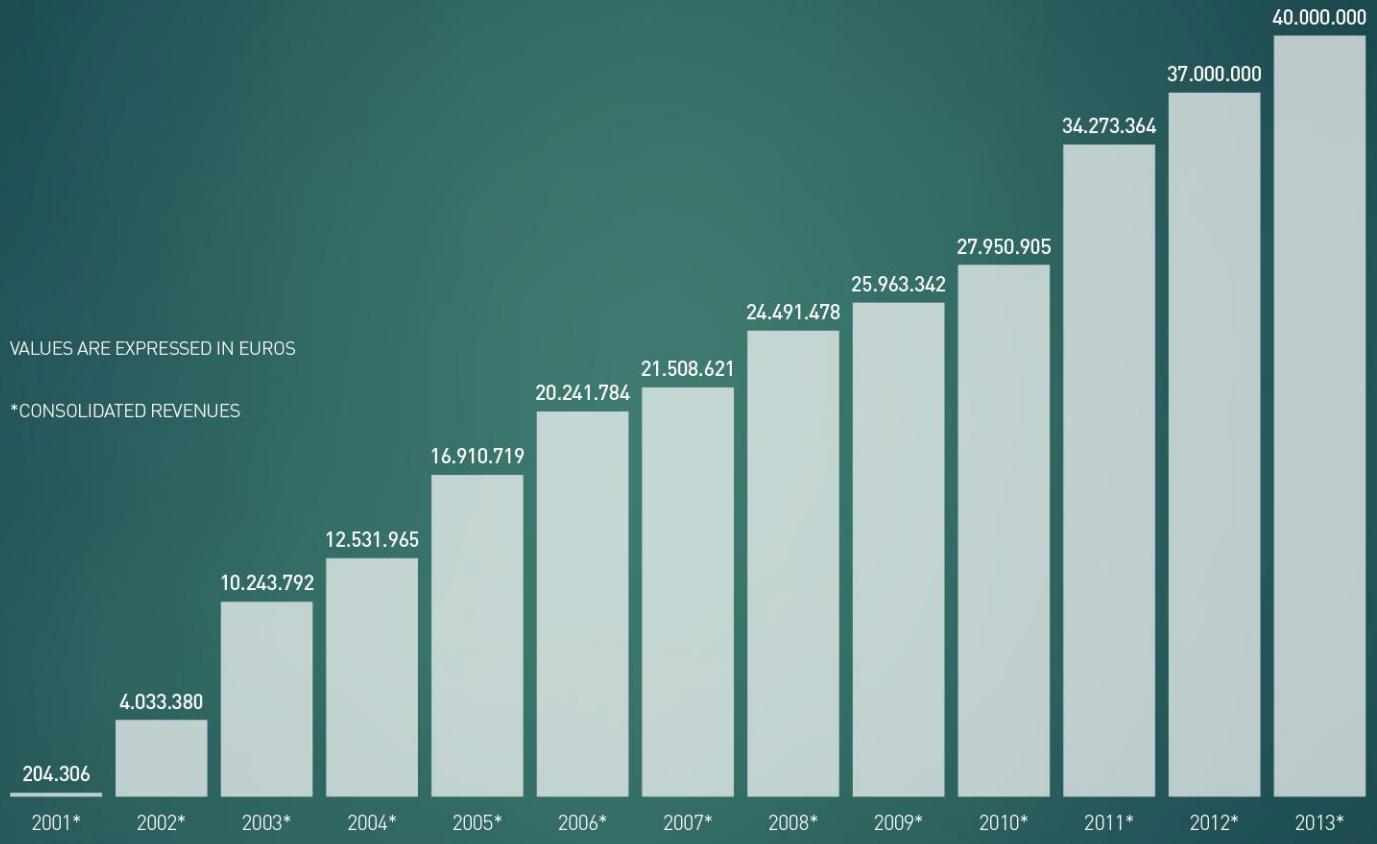
VALUES ARE EXPRESSED IN EUROS
*CONSOLIDATED REVENUES
204.306
4.033.380
10.243.792
12.531.965
16.910.719
20.241.784
21.508.621
24.491.478
25.963.342
27.950.905
34.273.364
37.000.000
40.000.000
2001*
2002*
2003*
2004*
2005*
2006*
2007*
2008*
2009*
2010*
2011*
2012*
2013*

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TLC → ICT

COMPETENCES

CUSTOMISED CLOUD COMPUTING SOLUTIONS (IaaS, STaaS, DCaaS, BaaS, DRaaS, SaaS)

SECURITY SERVICES

INTEGRATED COMMUNICATION SYSTEMS

SERVER FARM SOLUTIONS

BROADBAND AND ULTRABROADBAND INTERNET ACCESS

VIRTUAL PRIVATE NETWORKS

LANDLINES

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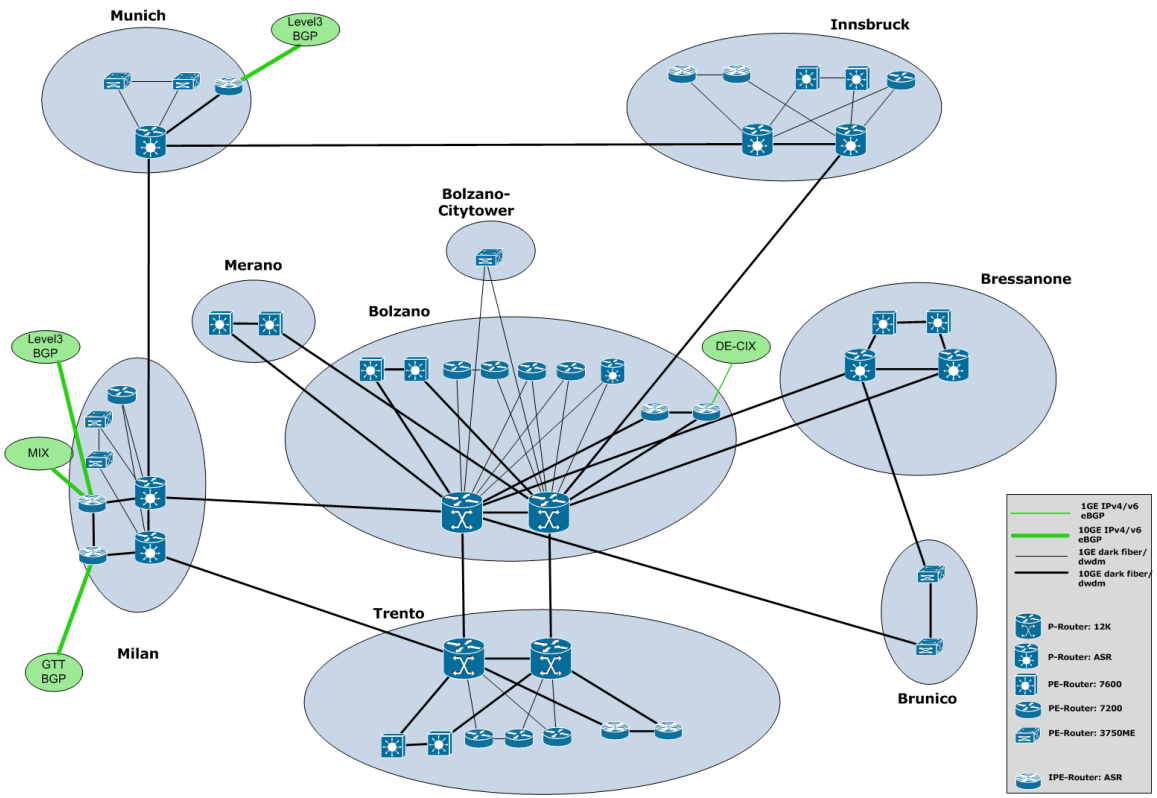
FRANKFURT
MUNICH
brenner com Deutschland
ZURICH
INNSBRUCK
brenner com Tirol
BOLZANO
brenner com
TeAA
met
TRENTO
brenner com
TeAA
TRENTINO NET
brenner com
met
MILAN
TRIESTE
met
brenner com
VERONA
ROME
met
met
CATANIA
met
RIYADH
58.000.000 m
OPTICAL FIBRE CABLES
3.778.000 m
COPPER CABLES
› 200
RADIO SITES
3
DATA CENTER INTERCONNECTED
WITH 100G TECHNOLOGIES
4
PUBLIC SWITCH VOICE EXCHANGES
INTELLIGENT NETWORK



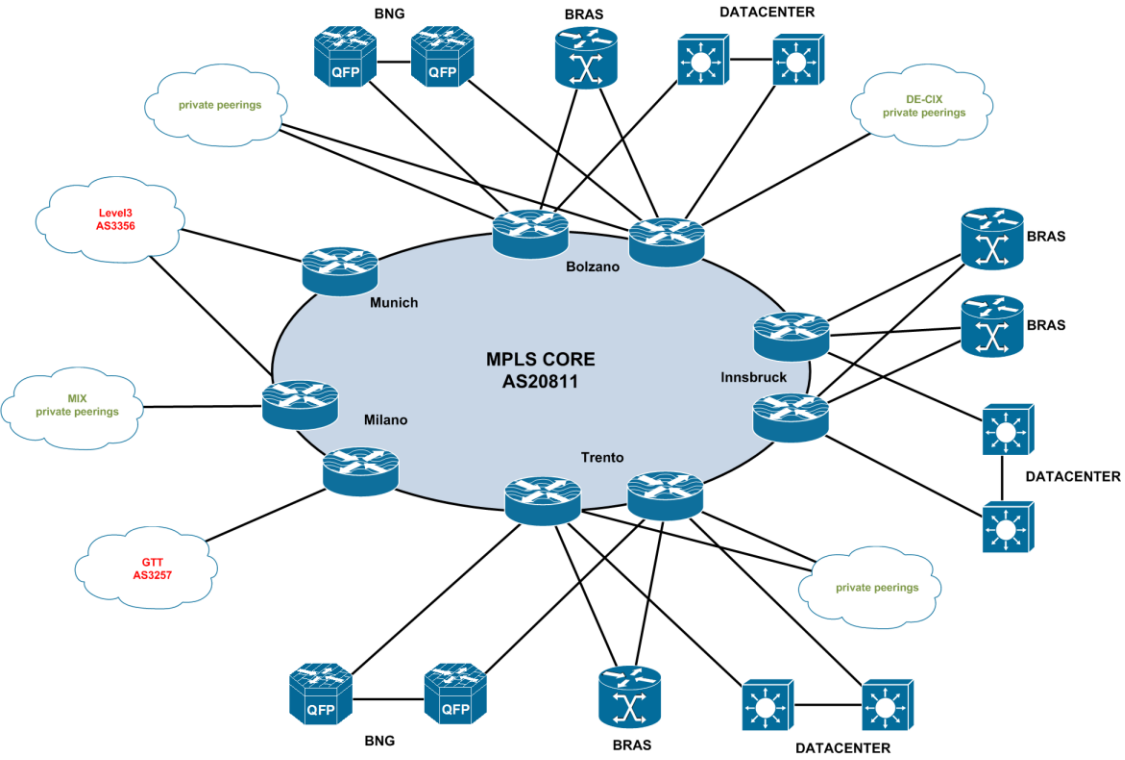
PROVIDER P ROUTER

Fast Switching Layer
Ring Topology
Layer 1: DWDM, Dark Fiber

PROVIDER EDGE PE ROUTER

Service Layer
Star Topology
Layer 1: Hiperlan, Wimax, LMDS, Copper, Fiber
Layer 2: Data Handling – ATM, Ethernet, ISDN

MPLS



BRENNERCOM ONLY IPE ROUTER

Internet Service Layer
Star Topology
Layer 1: Hiperlan, Wimax, LMDS, Copper, Fiber
Layer 2: Data Handling – ATM, Ethernet, ISDN

ROUTING

Upstream Provider
Internet Exchanges (MIX, DE-CIX)
BGP overview
OSPF overview

INTERNET

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VOICE	Alcatel·Lucent, ERICSSON, BROADSOFT Innovation calling.
NETWORK	CISCO, Alcatel·Lucent, ERICSSON
SECURITY	paloalto NETWORKS, Barracuda, FORTINET
DATA CENTER	RITTAL, UNIFLAIR, BENNING, Schneider Electric
CLOUD	CISCO, EMC², vmware, Microsoft, NTS
ERP/OSS	SAP, KYBERNA, NETadmin

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VPN MPLS

Customer with many sites

EoMPLS

Point to Point Links between Datacenters

CARRIER LINK

Link dedicated to other Service Provider

FAST REROUTE 50ms

For fast converged networks

QoS (Bucket-Algorithm)

To categorize and priorize data traffic

SERVICES

BUSINESS MODELS

OWN INFRASTRUCTURE

FTTX – Home, Building, Cabinet

COLLABORATION E.G. FERNHEIZWERK

Fiber from Partner, Services from Brennercom

UNBUNDLING

3th party Copper links attached to Brennercom infrastructure

WHOLESALE

Reseller Modell of 3th party connectivity e.g. Verizion

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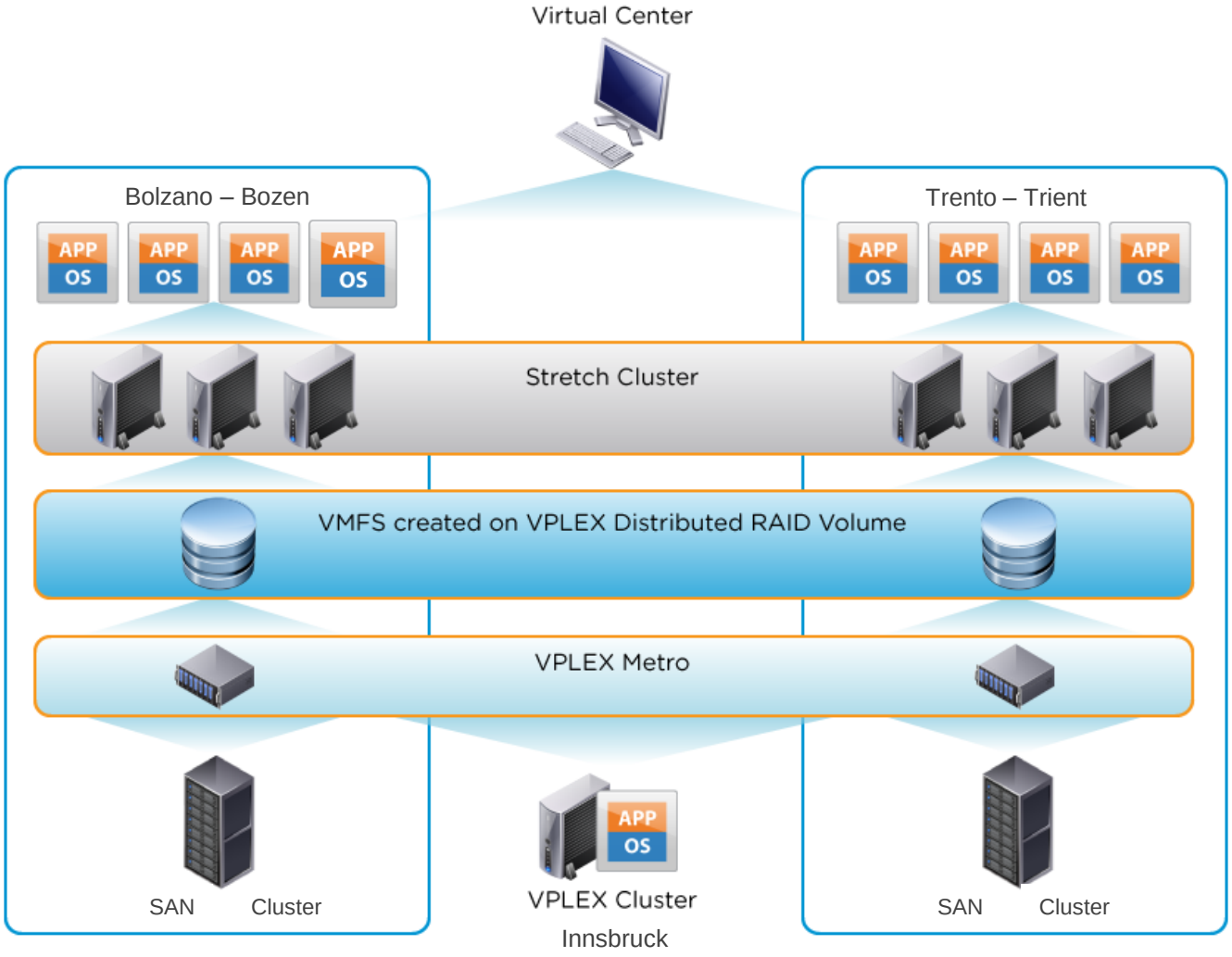

DESIGN – Multisite

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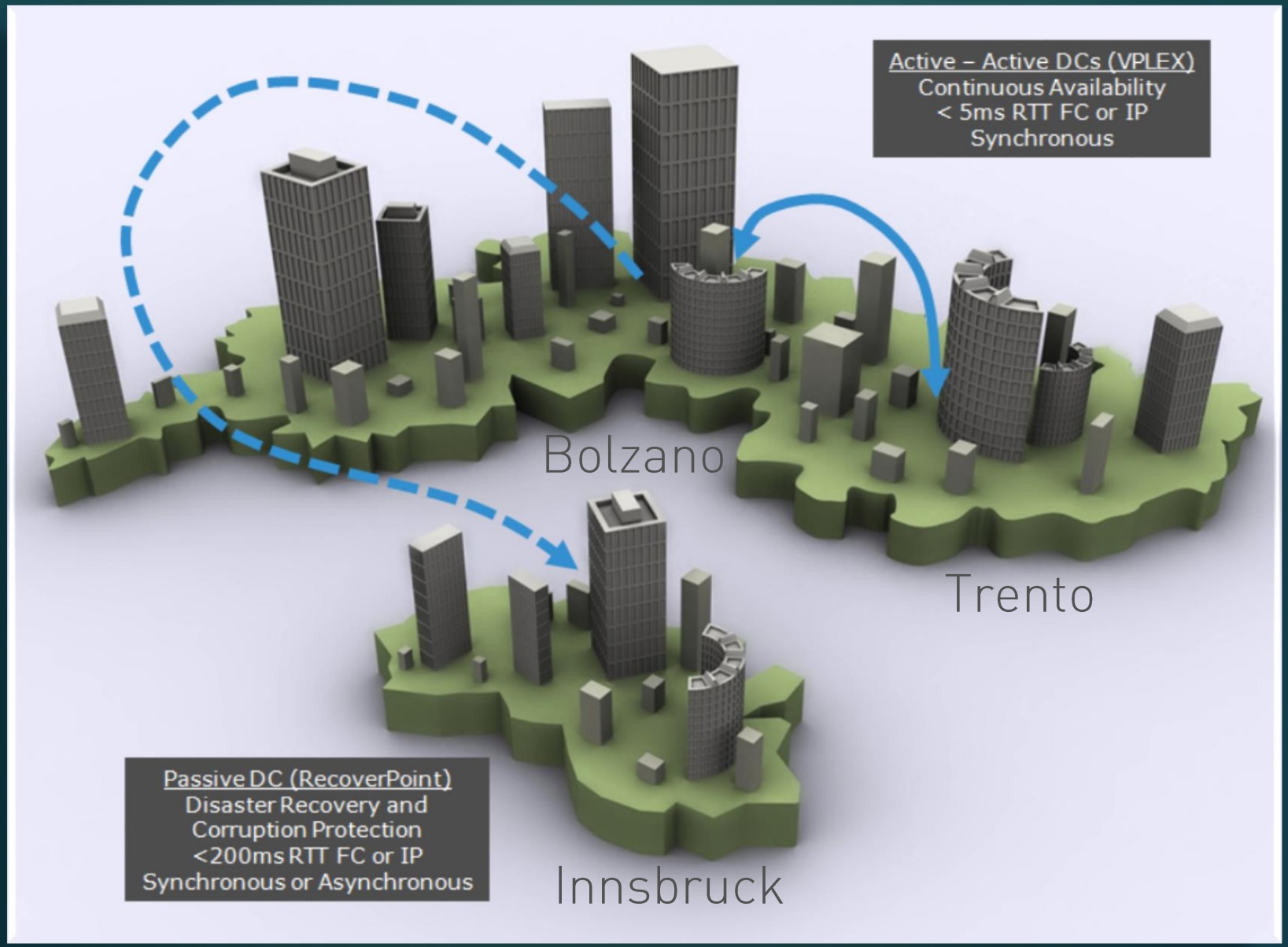

Active – Active DCs (VPLEX)
Continuous Availability
< 5ms RTT FC or IP
Synchronous
Bolzano
Trento
Passive DC (RecoverPoint)
Disaster Recovery and
Corruption Protection
<200ms RTT FC or IP
Synchronous or Asynchronous
Innsbruck

IaaS

Infrastructure as a Service

host

PaaS

Platform as a Service

build

SaaS

Software as a Service

consume

SERVICE MODELS

PUBLIC

Shared between customers

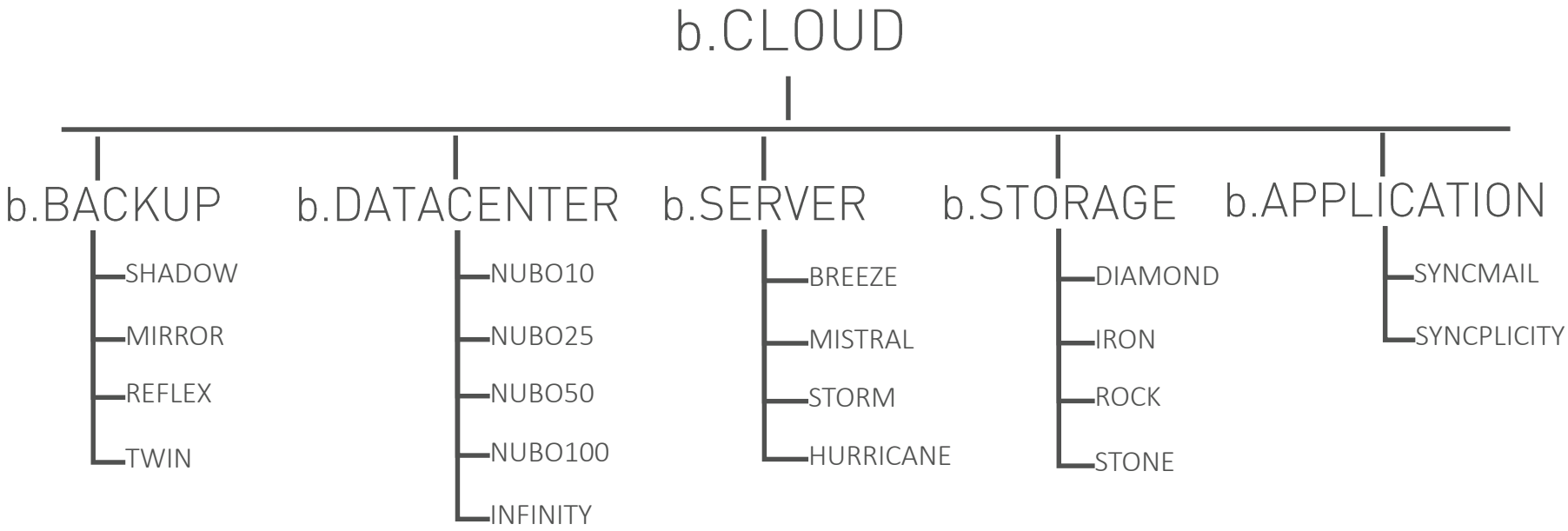
PRIVATE

Dedicated for one customer

HYBRID

Private and Public cloud toghether

DEPLOYMENT MODELS


b.CLOUD
b.BACKUP
SHADOW
MIRROR
REFLEX
TWIN
b.DATACENTER
NUBO10
NUBO25
NUBO50
NUBO100
INFINITY
b.SERVER
BREEZE
MISTRAL
STORM
HURRICANE
b.STORAGE
DIAMOND
IRON
ROCK
STONE
b.APPLICATION
SYNCMAIL
SYNCPLICITY

PRODUCTS

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ISO/IEC 27001:2005	**Certification & information security services** Since 2003
ISO 9001: 2008	**Quality management system** Since 2002
ANSI/TIA-942-A-2012 LEVEL TIER 4	**Highest ratings in security management of the infrastructures in data centres** Since 2013
CISCO CLOUD PROVIDER	**Certified cisco partner** Since 2013
GREEN ENERGY	**100% from renewable sources** Since 2012
AAA RATING	**Best possible bank rating** Since 2011

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CISCO

CCNA – CCNP – CCIE

VMWARE

VCP – VSP

MICROSOFT

MCSA – MCSE

GENERIC

PRINCE
ITIL
COBIT

STAFF LEVEL

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