

A woman with curly hair, wearing a blue blazer, stands at the front of a meeting room, pointing at a whiteboard. She is addressing a group of people seated around a long table. The room has large windows on the left side, and the whiteboard contains handwritten notes and diagrams. The text 'MEETING TODAY' is visible at the top of the whiteboard, along with 'SUMMER VACATION' and 'WEEKLY AGENDA'.

# Microsoft Teams User Group # 22

Teams Migration – aus alt mach Teams

<https://www.skype4b-ug.de>



@TeamsUG\_DE

# Die Teams UG stellt sich vor



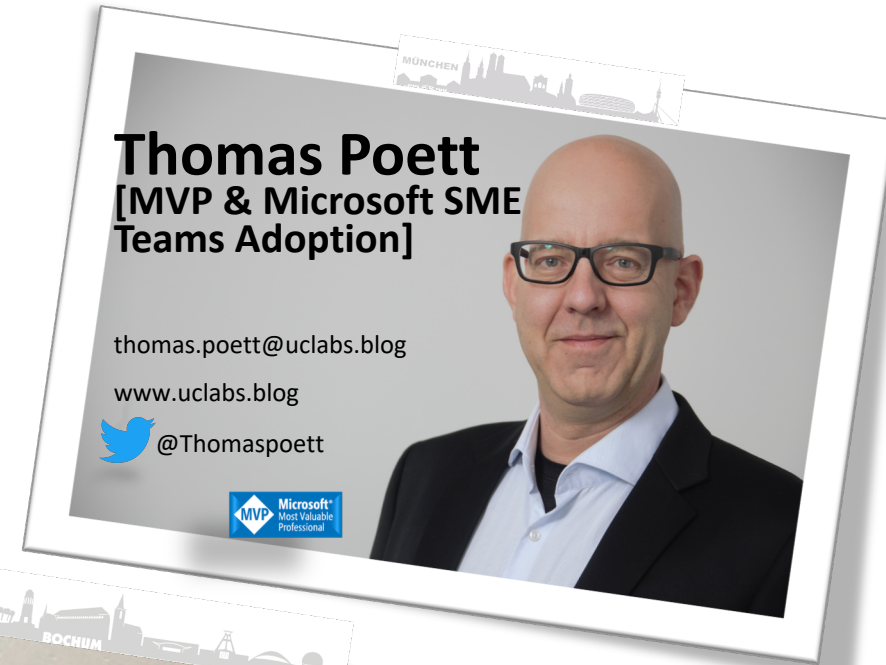
**Adrian Ritter**

Teamlead Office 365

 @adrianritter



**Dennis Winkelmann**  
System Architect



**Thomas Poett**  
[MVP & Microsoft SME  
Teams Adoption]

thomas.poett@uclabs.blog

www.uclabs.blog

 @Thomaspoett



**Michael Plettner**

Co-Founder & CEO

 @plemich

<https://talkm365.net>

 @talkm365



**Thorsten Pickhan**

Microsoft UC Consultant

 @tpickhan

<https://office365.thorpick.de>

# Agenda-Übersicht

Zeit	Agendapunkt
18:15	Welcome
18:20	What's New (Adrian Ritter)
18:30	Communities 4 Future
18:40	Migration von einer 3rd Party PBX zu MS Teams (Dennis Winkelmann, Thorsten Pickhan)
19:15	<i>Pause</i>
19:30	User Adoption (Thomas Poett, Michael Plettner)
20:00	Offene Runde

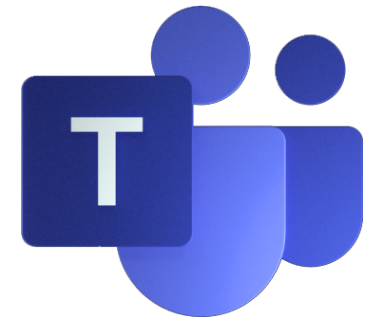


# Feedback gewünscht und benötigt



# What's New

- PowerPoint Live: Anmerkungen & Laserpointer
- PowerPoint Live: Übersetzung von Folien
- Teams Developer Portal Preview: Erstellen eigener „Togethermodes“
- Gruppenchat mit „Externen“
- Chatblasen in Meetings
- Besprechung sperren
- PSTN Teilnehmer können per „\*5“ die Hand heben
- Spotlight für bis zu 7 Teilnehmer
- Teilnehmer Report für Besprechungen und Webinare
- High Fidelity Music Mode
- Meeting Recording Wiedergabegeschwindigkeit 0,5-2X
- Finale TMR Umstellung auf SharePoint / OneDrive verschoben auf August



# What's New

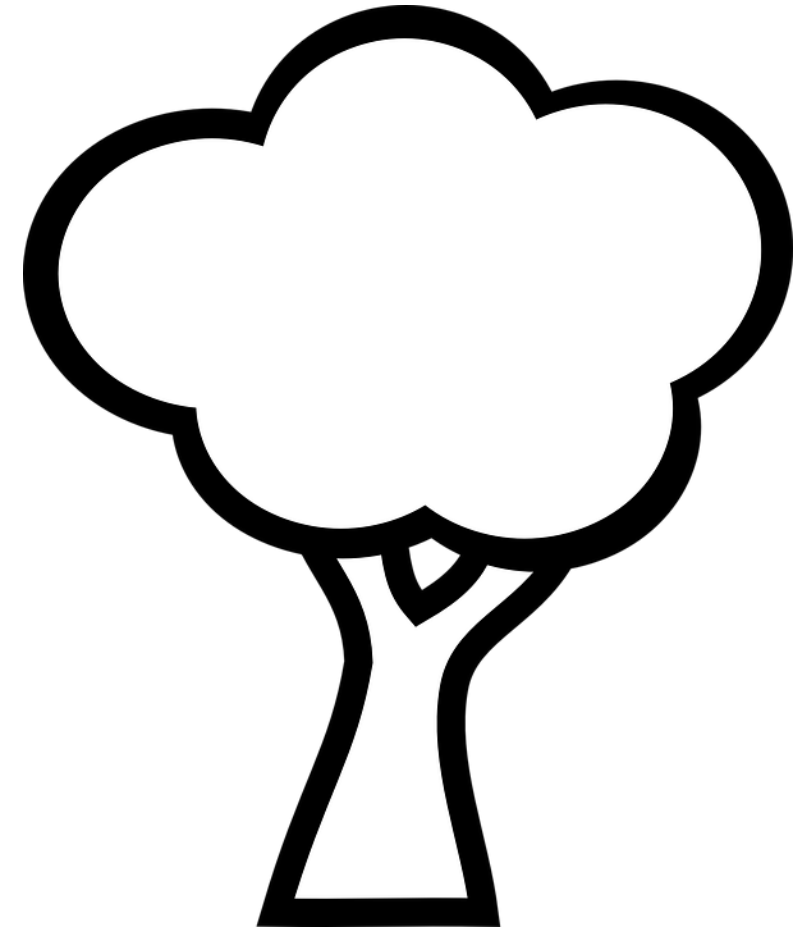
- Public Preview OneDrive for Business Sync Admin Reports
- OneDrive for Business Links mit Ablaufdatum
- SharePoint News Boost
- SharePoint automatisches News Digest jetzt mit Company Branding
- Microsoft Search erhält Vertical für Bildersuche
- Microsoft Lists Sync (Projekt Nucleus) Rollout ab August
- Microsoft Lists erhält Custom List Template
- Microsoft Lists @mentions in Kommentaren
- Power Bi Dashboard aus Microsoft Lists
- Power Bi Dashboard zur Analyse der persönlichen Aktivitäten
- PowerApps Preissenkung ab 1.Oktober 50% günstiger
- Visio Online in Public Preview



# Feedback gewünscht und benötigt



#Communities4Future





# WER?

## Gründermütter und /-Väter



Gabriella  
Kornberger

**develop<HER> Meetup - Programmieren mit Kindern**



Dr. Ludwig  
Reinhardt

**Microsoft Dynamics Meetup Deutschland**

<https://www.meetup.com/de-DE/Microsoft-Dynamics-Meetup-of-Berlin/>



Tomislav  
Karafilov

**Power Platform User Group Hannover**

<https://www.meetup.com/de-DE/Power-Apps-Power-Automate-UserGroup-Hannover/>

**#msccch**

<https://www.meetup.com/de-DE/MS-Cloud-Collaboration-Community-Hannover-MSCCCH/>



Stefan  
Riedel



# WAS?

## CO2 Offsetting der Meetups

**FRAGE1:** WIE MISST MAN DIE CO2 EMISSIONEN DER ONLINE MEETINGS?

**ANTWORT:** GENAUE STUDIEN FEHLEN, VIELZAHL AN EINFLUSSFAKTOREN

**REFERENZ:** [HTTPS://WWW.BMU.DE/PRESSEMITTEILUNG/VIDEO-STREAMING-ART-DER-DATENUEBERTRAGUNG-ENTSCHEIDEND-FUER-KLIMABILANZ/](https://www.bmu.de/pressemitteilung/video-streaming-art-der-datenuebertragung-entscheidend-fuer-klimabilanz/)

**FRAGE 2:** WAS MACHEN WIR?

**ANTWORT:** WORST CASE BERECHNUNG VON CO2-EQUIVALENTEN

	Co2 Emissionen in g pro Stunde Videostreaming	Durchschnittliche Dauer: 2,5 Stunden	Durchschnittliche Teilnehmer: 40	Meetups pro Jahr: 18
Gramm	90	225	9.000	162.000



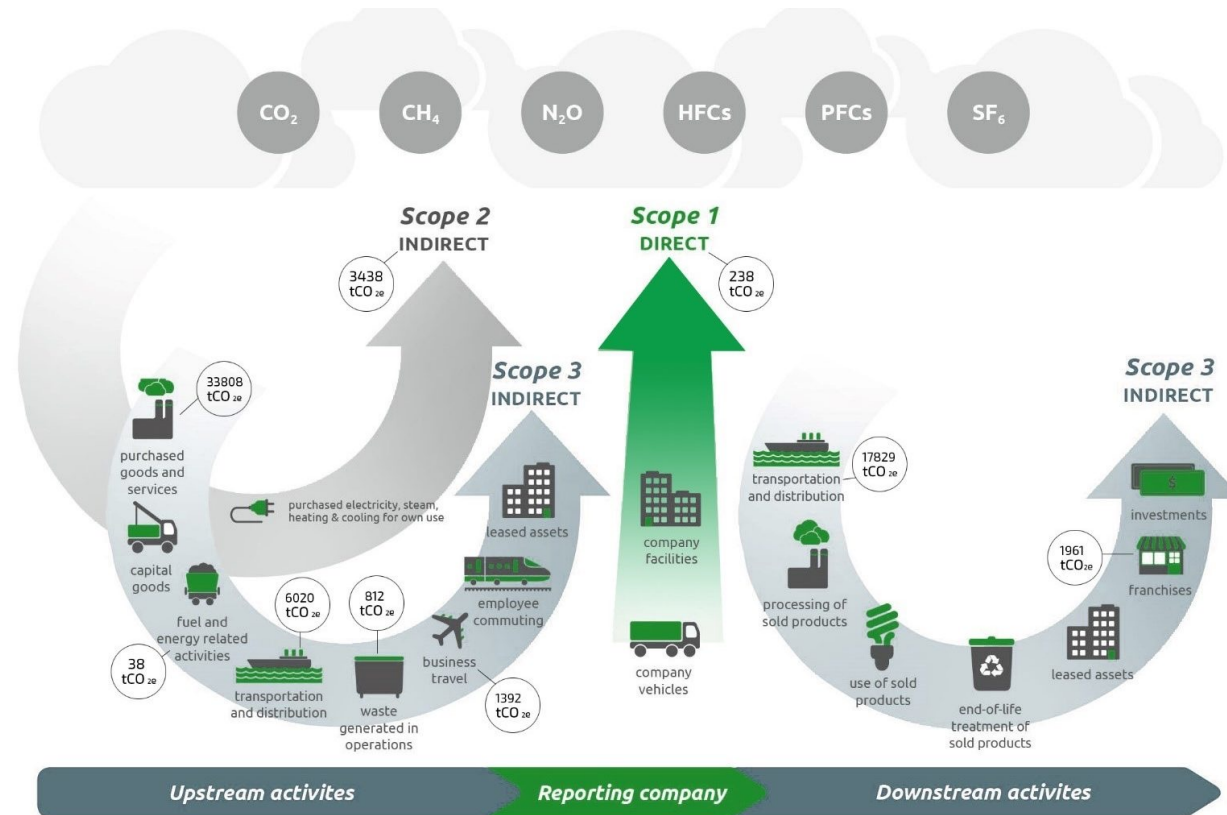
WAS?

# CO2 Offsetting der Meetups

**FRAGE 3:** IST DIE BERECHNUNG KORREKT?

**ANTWORT:** NEIN, WEIL WIR NUR DIE SCOPE-2 EMISSIONEN BETRACHTEN UND SCOPE-1 UND SCOPE-3 EMISSIONEN AUSSER ACHT LASSEN

1



WAS?

# CO2 Offsetting der Meetups

**FRAGE 4:** WAS MACHEN WIR?

**ANTWORT:** WIR VERDREIFACHEN EINFACH DIE EMISSIONEN

Scope	Gesamt pro Jahr
Scope 2	162.000 g
Scope 1 + Scope 3	324.000 g
Total Gramm	486.000 g
<b>In Tonnen</b>	<b>0.486 to / Jahr</b>



WIE?

# CO2 Kompensationsanbieter

**FRAGE 5:** WIE FUNKTIONIERT DAS MIT DEN CO2 KOMPENSATIONEN?

**ANTWORT:** DAS ERZEUGTE CO2 WIRD DURCH KLIMASCHUTZPROJEKTE AUSGEGLICHEN,  
ÜBER DEN KAUF VON ZERFITIKATEN

*(BÄUME PFLANZEN, ENERGIEEFFIZIENTE KOCHSTELLEN IN ENTWICKLUNGSLÄNDERN,  
UMWELTBILDUNG, ETC.)*

**FRAGE 6:** UNSER BEITRAG VON TEAMS USER GROUP

**ANTWORT:** EIN BAUM / EVENT BEI PLANT-MY-TREE.DE

**1 BAUM KOMPENSIERT CA. 1 T CO2 ÜBER 80 JAHRE = 2 JAHRE EVENTS**



# WIE?

# CO2 Kompensationsanbieter



**PLANT-MY-TREE®**

## IHRE BAUM-URKUNDE

**Teams User Group Deutschland**  
**Michael, Thorsten, Adrian, Thomas, Dennis**

Sie sind nun stolzer Baum-Pate für:  
**1 Baum**  
Baum-Nummer:  
**1007-216608**

Ihre Pflanzung leistet einen wichtigen Beitrag zum  
Klimaschutz durch CO<sub>2</sub>-Kompensierung.

Die Pflanzung erfolgt hier:  
**25582 Hohenaspe**  
Koordinaten der Fläche:  
**53°58'15.9"N 9°32'44.5"E**

Mülheim, 14.07.2021



25582 Hohenaspe

### Geplante Pflanzung: 115.000 Bäume

Im Frühjahr 2020 gepflanzt: 8.000 Bäume

2.000 Stieleichen, 2.000 Flatterulmen, 3.000 Douglasien, 500  
Winderlinden, 500 Bergahorn

Geplante Pflanzung im Herbst 2020: ca. 70.625 Bäume

5.000 Roteichen, 50.000 Stieleichen, 6.000 Küstentannen, 5.250  
Douglasien, 1.000 Linden, 1.000 Ulmen, 200 Bornmüllertannen, 150  
Tulpenbäume, 150 Eßkastanien, 150 Schwarznuss, 150 Hickory, 200  
Orientalische Buchen, 200 Sumpfyypressen, 150 Sequoia Dendron,  
1.000 Bergahorn, 25 Hybridnuss

Geplante Pflanzung im Frühjahr 2020: 36.375 Bäume

Sorten folgen

(Bild zeigt einen Teil der Aufforstungsfläche)

Der Restbestand an Überhältern sorgt für eine Erziehung der  
Setzlinge durch Licht und Schatten und schützt insbesondere vor  
Frost.



Mülheim, 14.07.2021

DIE KLIMASCHÜTZER!

PLANT-MY-TREE®  
Wiescher Weg 5  
45472 Mülheim  
www.plant-my-tree.de  
info@plant-my-tree.de

# WIESO?

## Das 1,5 Grad-Ziel nicht erreichbar

Aktuell: 2.7 Grad Pfad in Europa

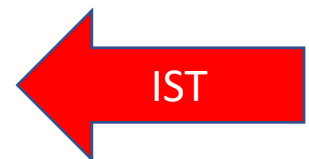
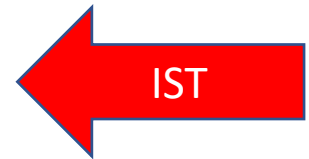
<https://www.cdp.net/en/articles/media/running-hot-cdp-europe-report-release>

## Ippc Weltklimarat Bericht

[http://www.climatechange2013.org/images/report/WG1AR5\\_SPM\\_FINAL.pdf](http://www.climatechange2013.org/images/report/WG1AR5_SPM_FINAL.pdf)

ZIEL  
Parisabkommen:  
RCP 1.9  
  
(nicht mal hier  
enthalten !!!)

		2046–2065		2081–2100	
	Scenario	Mean	Likely range <sup>c</sup>	Mean	Likely range <sup>c</sup>
Global Mean Surface Temperature Change (°C) <sup>a</sup>	RCP2.6	1.0	0.4 to 1.6	1.0	0.3 to 1.7
	RCP4.5	1.4	0.9 to 2.0	1.8	1.1 to 2.6
	RCP6.0	1.3	0.8 to 1.8	2.2	1.4 to 3.1
	RCP8.5	2.0	1.4 to 2.6	3.7	2.6 to 4.8
	Scenario	Mean	Likely range <sup>d</sup>	Mean	Likely range <sup>d</sup>
Global Mean Sea Level Rise (m) <sup>b</sup>	RCP2.6	0.24	0.17 to 0.32	0.40	0.26 to 0.55
	RCP4.5	0.26	0.19 to 0.33	0.47	0.32 to 0.63
	RCP6.0	0.25	0.18 to 0.32	0.48	0.33 to 0.63
	RCP8.5	0.30	0.22 to 0.38	0.63	0.45 to 0.82



RCP: Representative Concentration Pathways



UND NUN?



Weitersagen!

#Communities4Future





# Feedback gewünscht und benötigt

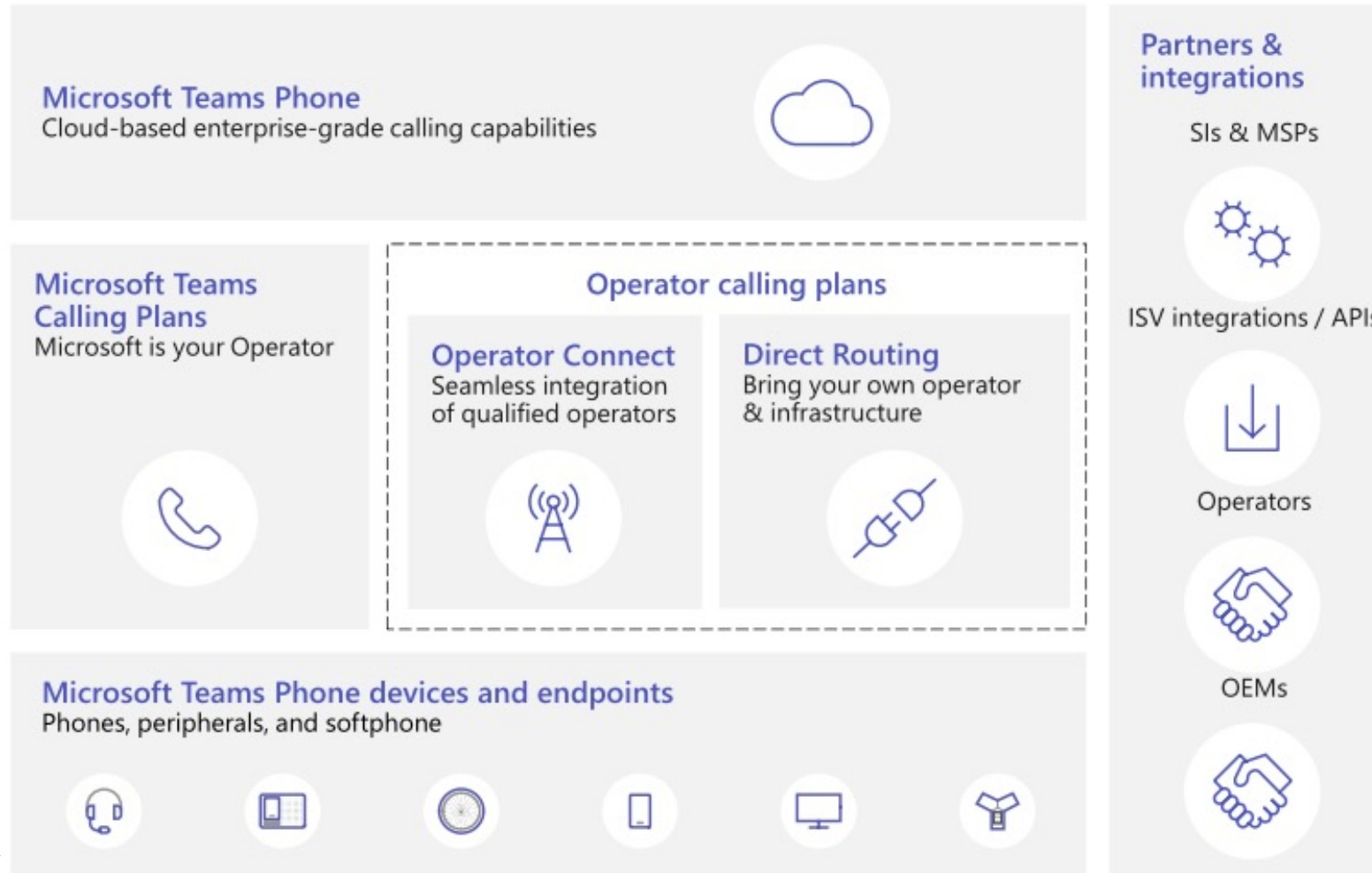


A woman with curly hair, wearing a blue blazer, stands at the front of a meeting room, pointing at a whiteboard. She is addressing a group of five people seated around a long table. The room has large windows on the left side, letting in bright light. The whiteboard has handwritten notes including 'MEETING TODAY', 'APPS', 'SUMMER VACATION', 'WEEKLY AGENDA', and 'BONUS BASED COMPANY'. There are also some sticky notes on the board.

# Teams Voice Migration

Thorsten Pickhan, Dennis Winkelmann

# Voice options in Teams



## 3 options for Calling in Teams – pick & mix

Microsoft meets your diverse needs with flexible and simple options to bring calling to Teams. There are now three options for enabling phone system.



### Microsoft Calling Plans

A fast and simple way to setup calling without additional technical configurations. It does not require a session border controller (SBC) or 'voice trunk'.

Available in 28 markets.

### Operator Connect

A quick and easy way to get started with calling while maintaining existing service provider agreements and leveraging the customization and flexibility of direct routing.

Available through select operator partners starting in May, and continually adding new operators.

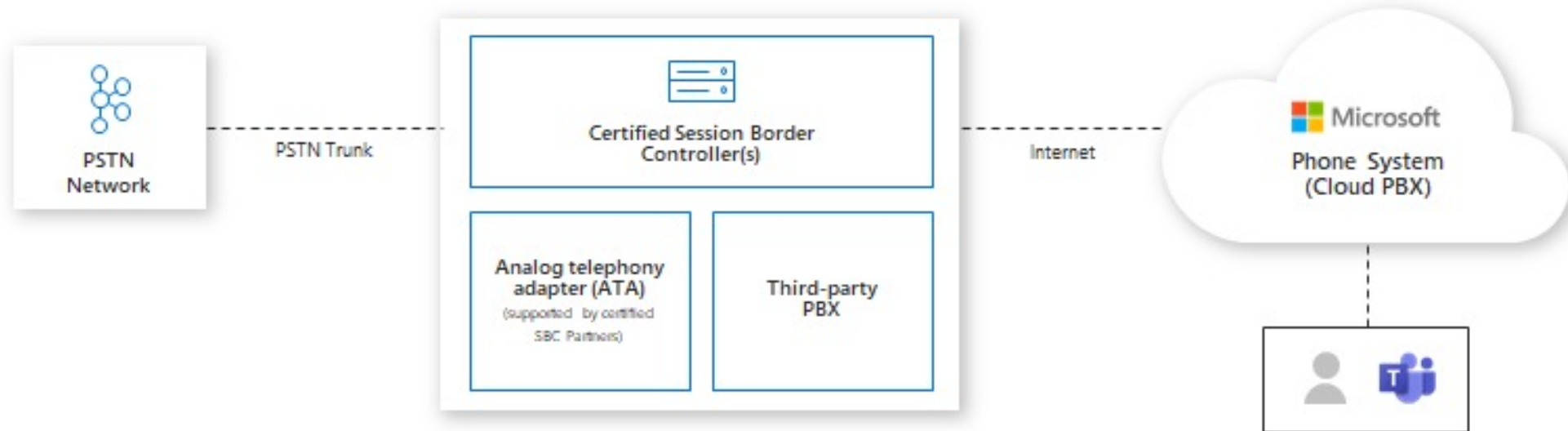
### Direct Routing

Highly customizable approach that allows customers to maintain existing service provider agreements and use on premises/hybrid hardware.

Available globally through partners.



## Direct Routing for Teams



### Connect own PSTN trunk

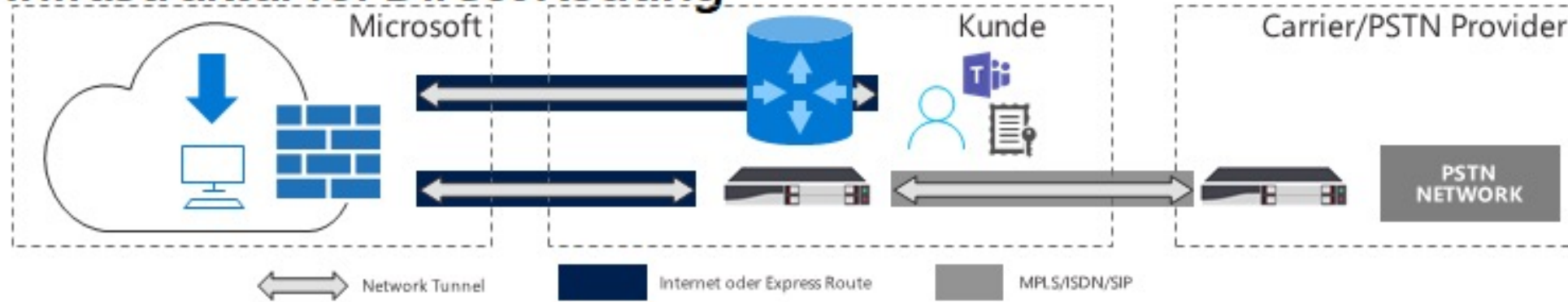
For countries where Microsoft Calling plans are not available  
Customers that want to keep existing telco contract

### Interoperability with third-party systems

Mix two systems (for example, provide the option to connect analog devices)



## Infrastruktur for Direct Routing



### Requirements to each involved party:

#### Microsoft

- Phone System
- Teams client
- Support (inklusive Kommunikation mit **zertifizierten** SBC Herstellern)
- Unterstützung Konfiguration

#### Customer

- "E5" oder "E3 + Microsoft Phone System Lizenz"
- Providerverträge
- Zertifizierter SBC (inclusive Support Vertrag)
- Zugriffsmanagement SBC
- Öffentliche IPs
- FQDN
- (öffentliche) Zertifikate
- Konfiguration SBC mit Office 365 und Provider

#### Carrier

- ISDN/ SIP Trunk
- Support



## Direct Routing benefits



Interoperability with  
third-party systems



Leverage existing  
PSTN Service



Media  
optimization



Available in  
181 countries



Deployment  
flexibility

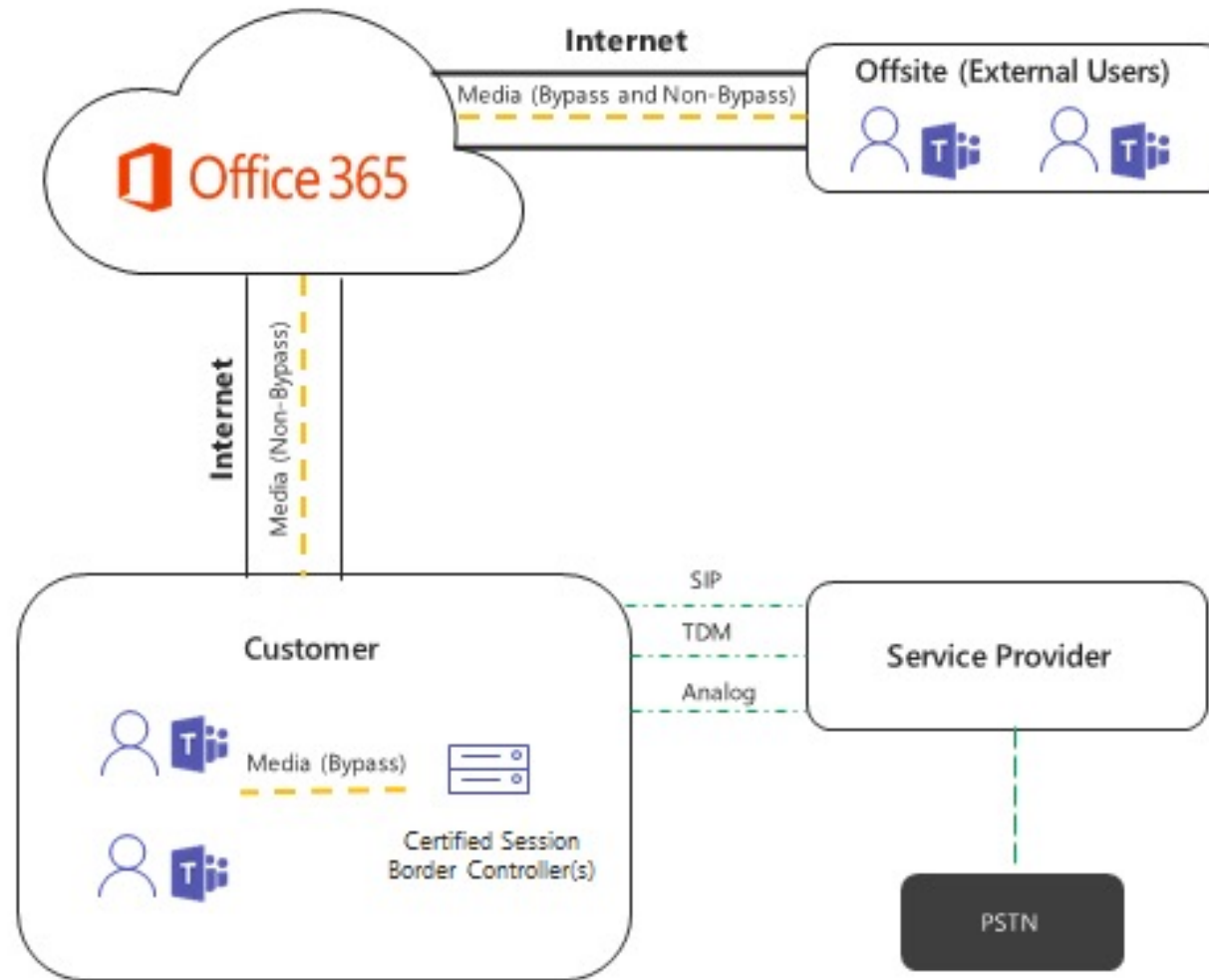


Pure Cloud  
or managed



## Deployment model: Customer premise

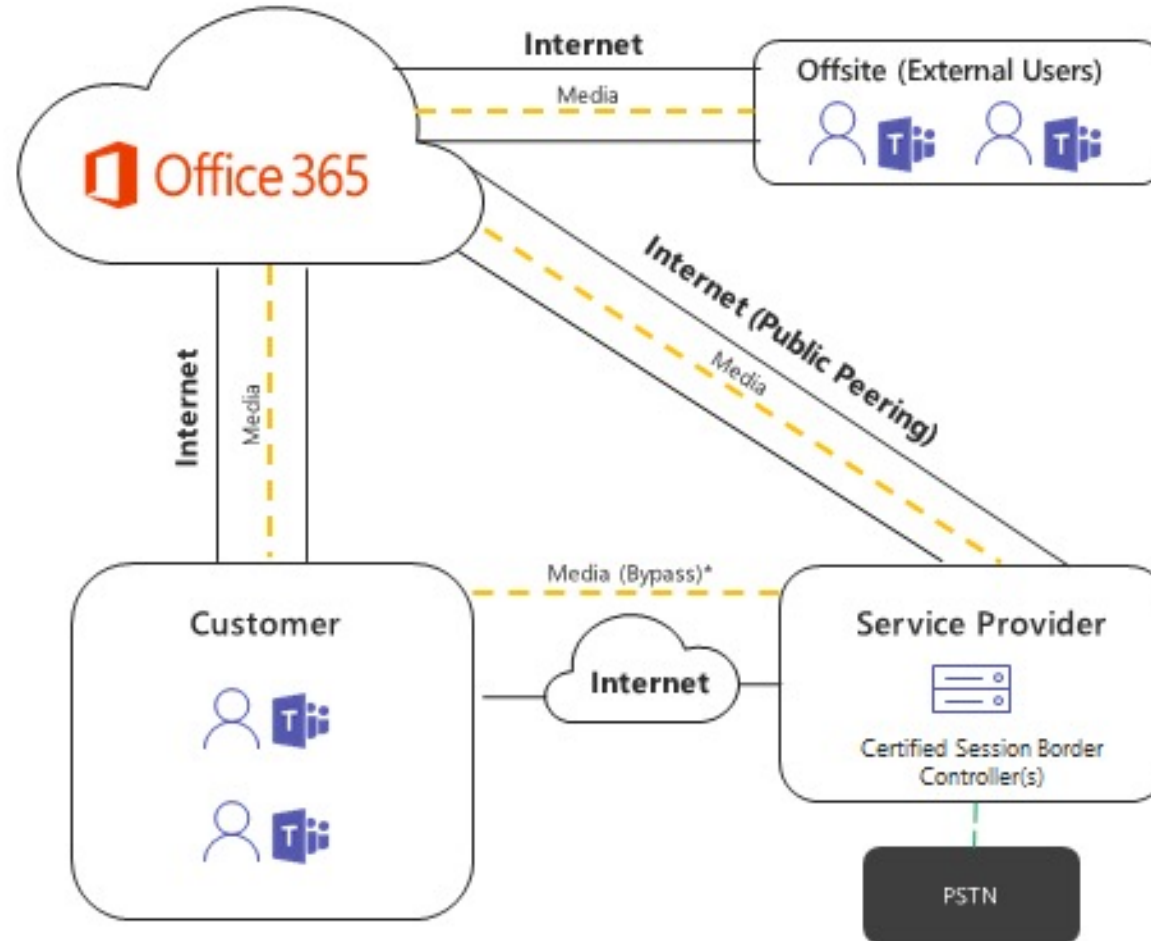
- SBC is placed at customer premise
- Can be managed by customer or service provider
- All media between customer location and Office 365





## Deployment Model: Service Provider Hosted (Simplified)

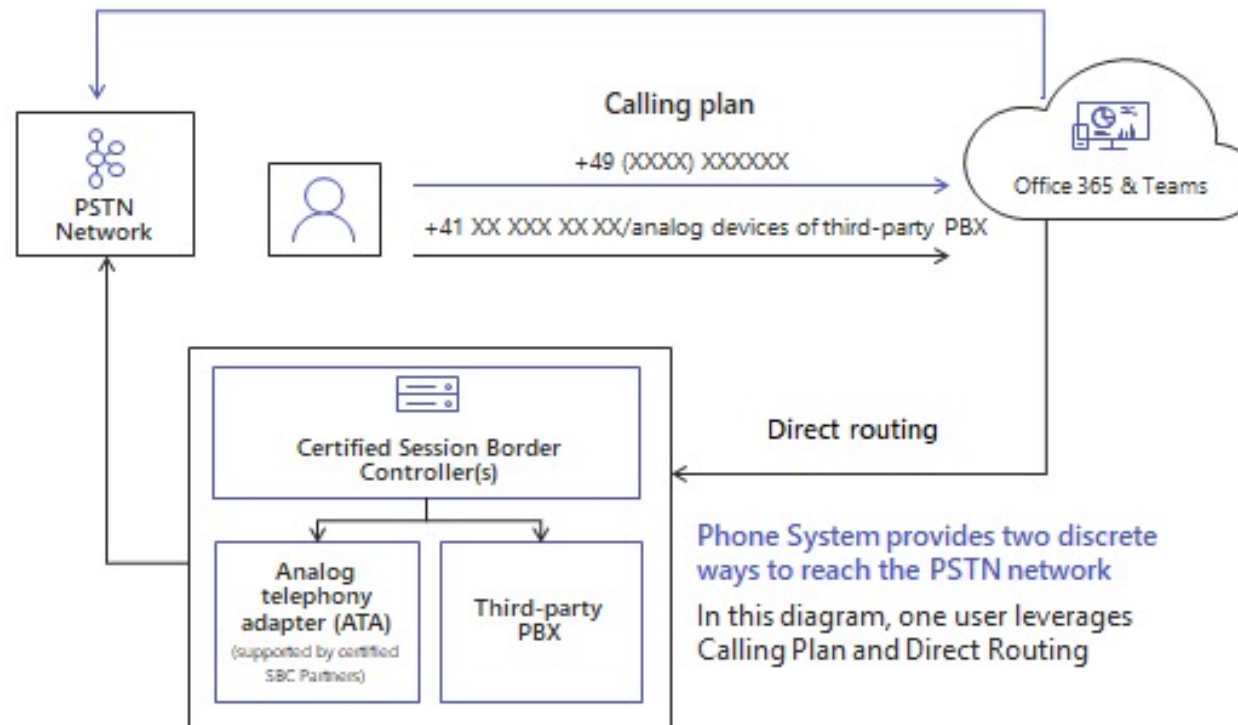
- SBC is hosted and managed by the Service Provider
- Data connectivity between the provider and customer is over the public Internet
- Media is between customer location and Office 365\*



\* - Bypass is not recommended over the Internet, but in some cases may be a better option in this scenario, depending on customer and hoster location



## Calling Plans + Direct Routing



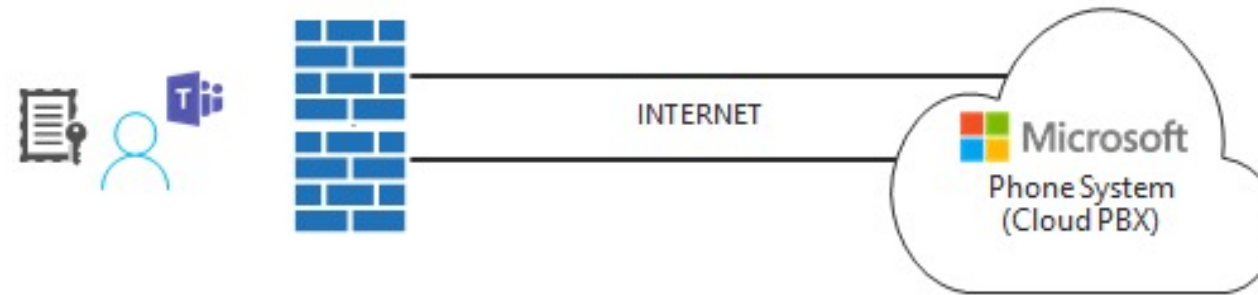
Inbound calls will always be made to Calling Plan DID

### Scenarios

1. Send-only internal calls to SBC, using Calling Plan for PSTN calls
  - o Routes will be specific to internal extensions so only those match
2. Purchase only domestic calling plan and send international calls to SBC
  - o Routes will exclude user's "home" country code



# User Provisionierung



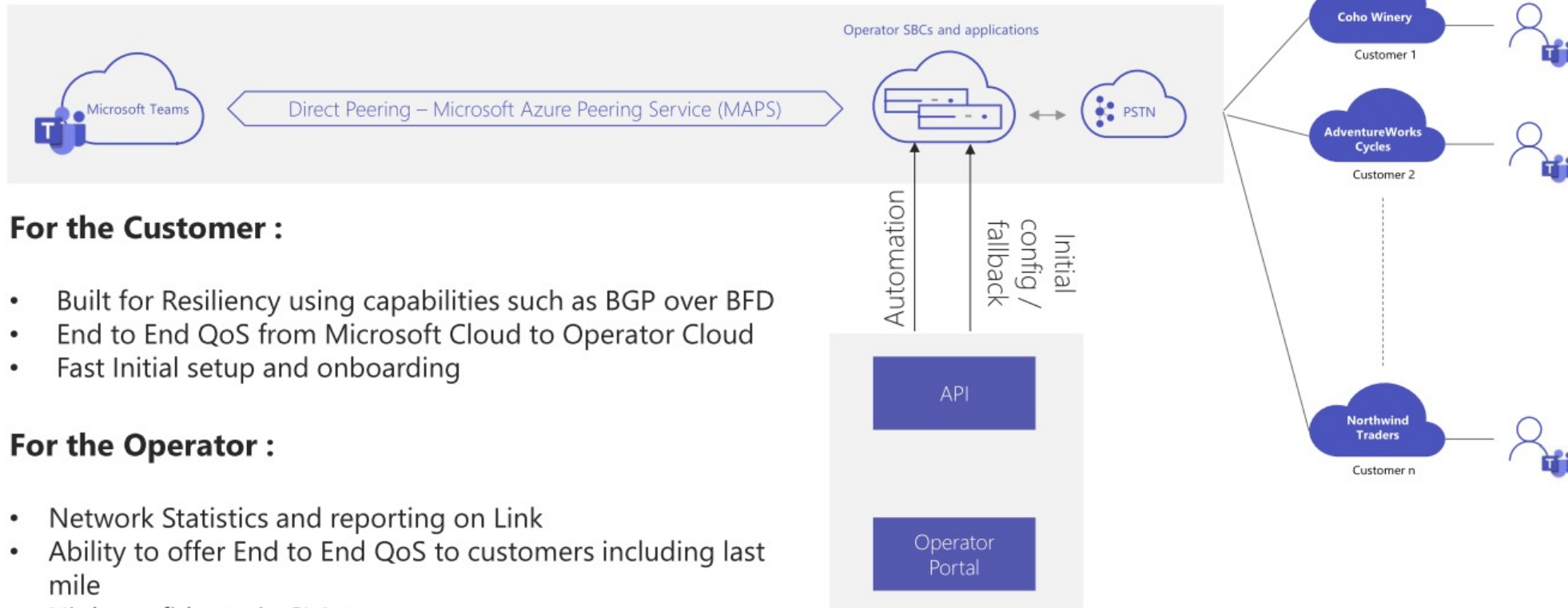
	Direct Routing	Microsoft Calling Plan (und Direct Routing)
Notwendige Lizenz	<ul style="list-style-type: none"> <li>• Skype for Business Online (Plan 2)</li> <li>• Microsoft Phone System</li> <li>• Microsoft Teams</li> </ul>	<ul style="list-style-type: none"> <li>• Skype for Business Online (Plan 2)</li> <li>• Microsoft Phone System</li> <li>• Microsoft Teams</li> <li>• Microsoft Calling Plan</li> </ul>
Rufnummern	On-premises / Azure Active Directory	Von Microsoft or portiert vom Provider
Routing	Das komplette Routing liegt in der Hand der Administratoren.	Zunächst Prüfung auf konfigurierte Routen. Wenn keine Routen konfiguriert sind greifen die Microsoft Calling Plan Routen.



# Operator Connect - Interconnection

## Interconnection

- Direct peering through Microsoft Azure Peering Service (MAPS) for Voice
- Provisioning APIs and an Operator Portal for setting up trunk to Microsoft Teams



## For the Customer :

- Built for Resiliency using capabilities such as BGP over BFD
- End to End QoS from Microsoft Cloud to Operator Cloud
- Fast Initial setup and onboarding

## For the Operator :

- Network Statistics and reporting on Link
- Ability to offer End to End QoS to customers including last mile
- High confidence in SLA to customer



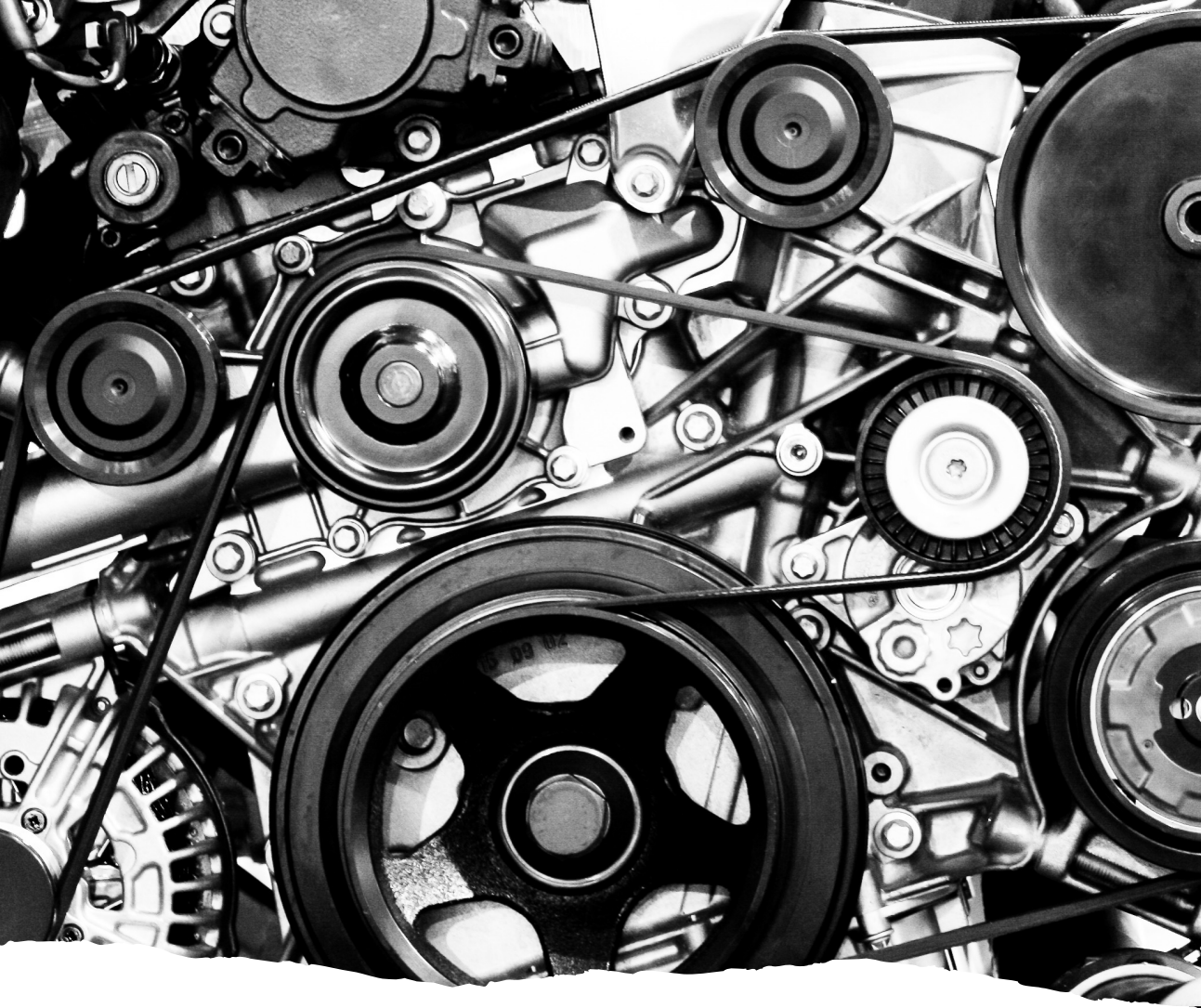
# Operator Connect vs. Direct Routing

	Operator Connect	Direct Routing
<b>Program Type</b>	<ul style="list-style-type: none"> <li>• Programmatic Approach to Operator Provided Calling</li> </ul>	<ul style="list-style-type: none"> <li>• Not a Program. Core Functionality.</li> </ul>
<b>Interconnection</b>	<ul style="list-style-type: none"> <li>• Microsoft Azure Peering Service (MAPS) for Voice</li> <li>• Dedicated Portal/APIs for Trunk Setup and validation</li> </ul>	<ul style="list-style-type: none"> <li>• TLS/SRTP over Internet</li> <li>• Carrier Tenant for setting up super trunk</li> <li>• Some Customer configuration required or delegated specifically</li> </ul>
<b>Number Provisioning</b>	<ul style="list-style-type: none"> <li>• Provisioning through API's to facilitate automation</li> </ul>	<ul style="list-style-type: none"> <li>• None, need customer account or "admin on behalf" for executing PowerShell commands</li> </ul>
<b>Teams Admin Center</b>	<ul style="list-style-type: none"> <li>• Presence in the portal, customer can select the Operator for number provisioning / management, or assignment</li> </ul>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Customer Experience</b>	<ul style="list-style-type: none"> <li>• Number visualized in the portal as Operator numbers</li> <li>• IT Admin can assign numbers to users directly from the portal</li> </ul>	<ul style="list-style-type: none"> <li>• IT Admin or Operator needs to assign number through PowerShell</li> <li>• IT Admin or Operator needs to create/assign Voice Policies</li> </ul>
<b>Data sharing</b>	<ul style="list-style-type: none"> <li>• CDR/CQD (QoS)/SLA data provided to Operators through API's</li> <li>• Joint CDR for customers reporting</li> </ul>	<ul style="list-style-type: none"> <li>• CDR/CQD data can be retrieved tenant by tenant using delegated access</li> </ul>
<b>Support / SLA</b>	<ul style="list-style-type: none"> <li>• Operator Tier 1 Support; Operator-Microsoft Model in place</li> <li>• Product Change Management and updates channel</li> <li>• Back to back SLA in place between Microsoft and Operator</li> </ul>	<ul style="list-style-type: none"> <li>• Operator Tier 1 Support</li> <li>• Escalations through M365 Support or Premier Support</li> <li>• No SLA in place</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>• Dedicated Management capabilities in Operator Portal/API (at GA)</li> </ul>	<ul style="list-style-type: none"> <li>• Delegated Admin or Teams RBAC Access required from Customer</li> </ul>
<b>Total Cost of Ownership</b>	<ul style="list-style-type: none"> <li>• "As a service" model delivered by the Operator</li> </ul>	<ul style="list-style-type: none"> <li>• SBC owned and operated by the Customer or Hosted/Managed by Operator</li> </ul>



# Feedback gewünscht und benötigt





Technik ist aber nicht alles



# Adoption: user and persona's





# User adoption is the key



**C-level executives**

1:1 trainings, VIP support, CXO + assistances



**IT Department**

First pilot and test group for training materials



**Sales**

First migration wave, additional feedback sessions



**Marketing, etc.**

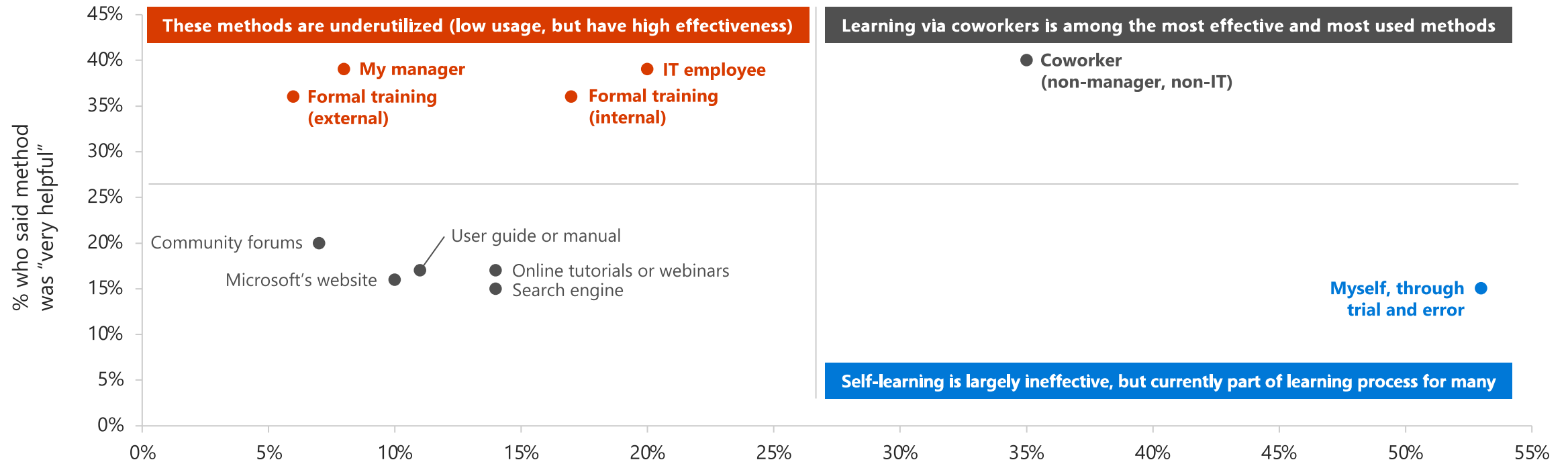
migration waves for departments - general rollout



# Why are champions important?

Learning via coworkers is among the most effective and most used methods.

Percent using learning method versus helpfulness



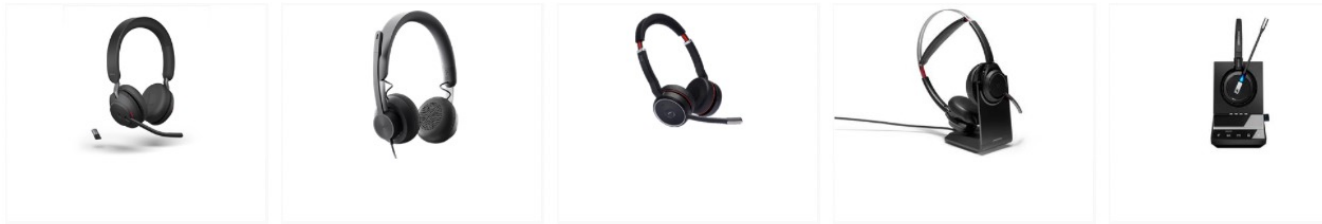
# Five steps to developing a Champions Community

- 
- 1 Set the context.
  - 2 Design and align the Champions Community to organizational objectives and vision for the change.
  - 3 Identify champions and get buy-in.
  - 4 Build a plan with champions.
  - 5 Execute and iterate.
- 



# Devices (quick overview)

## Headsets [SEE ALL >](#)



Headsets



Speakerphones



Web Cameras



Desk phones & Teams displays



Teams Rooms



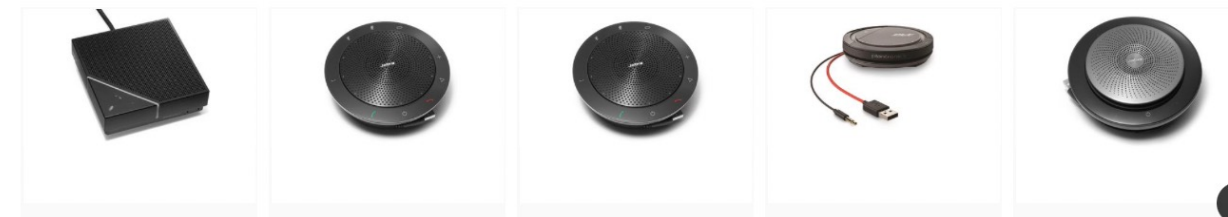
Room accessories

## Desk phones & Teams displays [SEE ALL >](#)

## Teams Rooms [SEE ALL >](#)



## Speakerphones [SEE ALL >](#)



<https://www.microsoft.com/en-us/microsoft-365/microsoft-teams/across-devices/devices>



# Feedback gewünscht und benötigt



# Nächstes Event

29. September 2021

<https://www.skype4b-ug.de>



@TeamsUG\_DE