

ESMO VIRTUAL PLenary

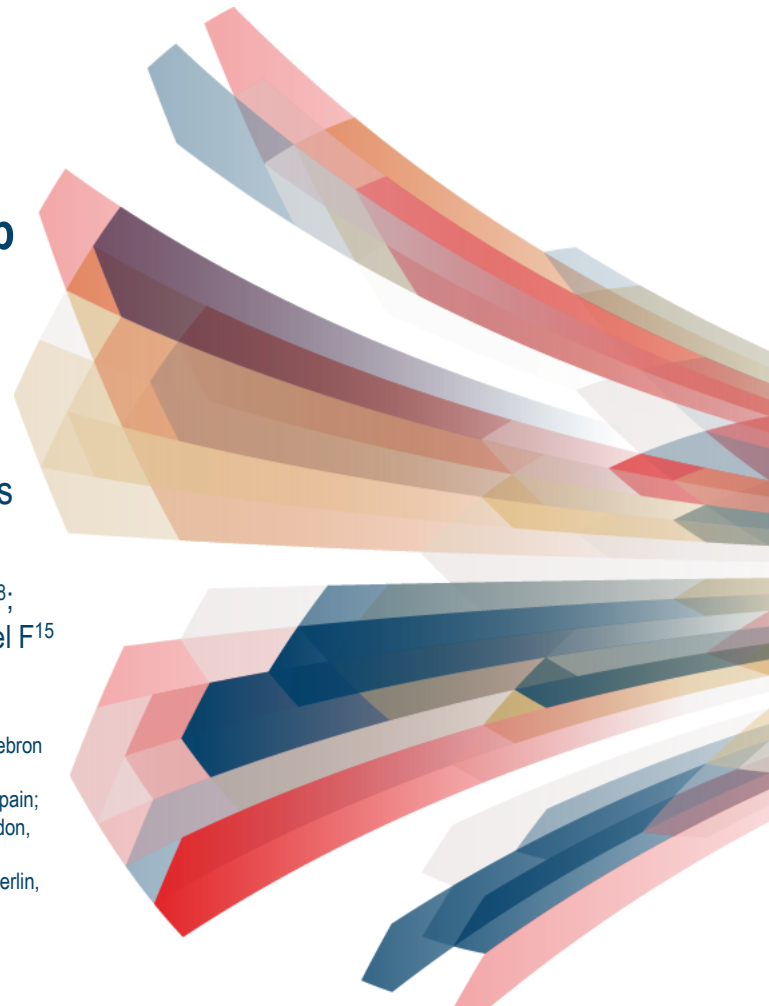
WITH AACR EXPERT COMMENTARY

Eftilagimod Alpha (Soluble LAG-3) & Pembrolizumab in First-Line Recurrent or Metastatic Head & Neck Squamous Cell Carcinoma: Primary Results from Cohort B (CPS <1) of the TACTI-003 Study

Phase IIb study of soluble LAG-3 combined with an anti-PD-1 antibody as a first-line therapy in R/M HNSCC

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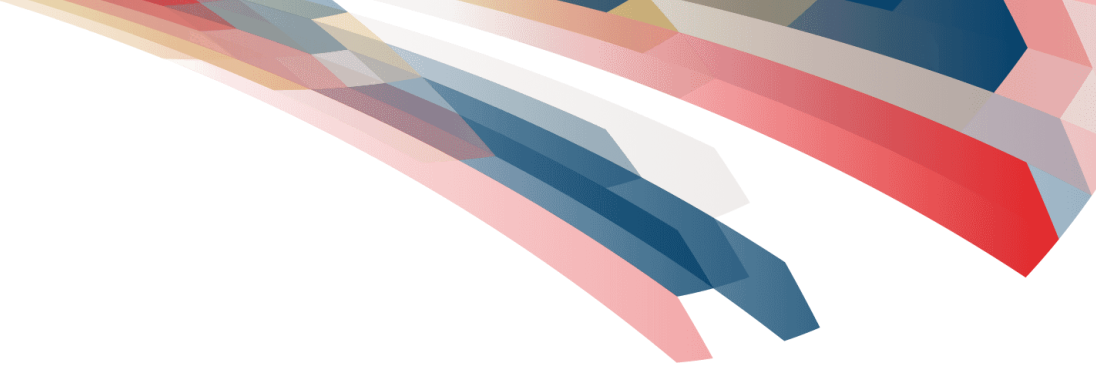


DECLARATION OF INTERESTS

Robert Metcalf

Advisory Board: Ayala, Bayer, Aptus Clinical, PCI Biotech, Oxsonics, Roche, Achilles Therapeutics.

Other: BMS, MSD, Sanofi, Merck.

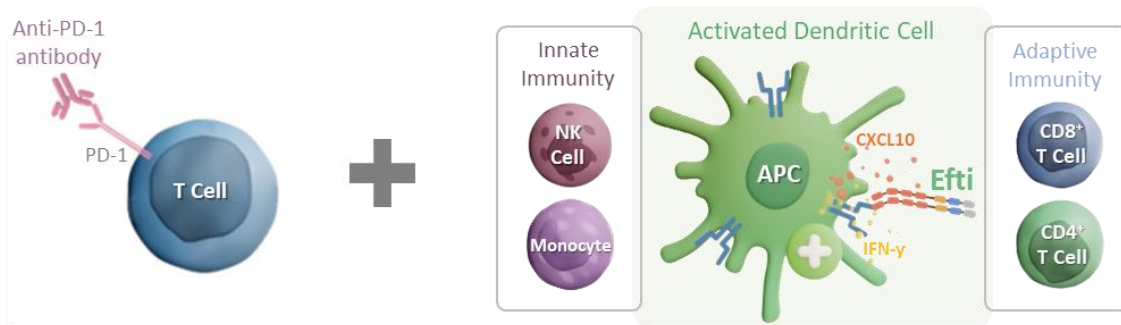


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BACKGROUND

- **Eftilagimod alpha**: a **soluble LAG-3 protein** and **MHC Class II agonist** that leads to an enhanced immune response through activating antigen presenting cells (APCs), leading to the activation/proliferation of CD8⁺ T cells.
- Pembrolizumab: current standard-of-care that antagonizes PD-1 receptor on T cells, enhancing the immune response against cancer cells.



Efti directly targets MHC Class II on APCs, having an agonistic effect, unlike LAG-3 antagonists that target T cells.

MHC: major histocompatibility complex

RATIONALE

- Eftilagimod activates APCs, leading to an increase in activated T cells (CD4/CD8), augmenting responses when combined with PD-(L)1 antagonists such as pembrolizumab.
- Encouraging efficacy has been seen in 2nd line HNSCC¹ pts (table, left) after failure of 1st line chemotherapy and in 1st line NSCLC regardless of PD-L1 TPS² (table, right) when eftilagimod was combined with pembrolizumab. Responses were observed irrespective of patients' CPS/TPS level.

2nd line HNSCC, presented at ASCO 2023¹

PD-L1 CPS	ITT, N=37	≥20, N=15	<20, N=17
Objective response rate (iRECIST), %	29.7	60.0	11.8

¹ Doger B. et al, Final results from TACTI-002 Part C: A phase II study of eftilagimod alpha (soluble LAG-3 protein) and pembrolizumab in patients with metastatic 2nd line head and neck squamous cell carcinoma unselected for PD-L1, JCO; 41, 6029-6029(2023). https://doi.org/10.1200/JCO.2023.41.16_suppl.6029

1st line NSCLC, presented at ESMO 2023²

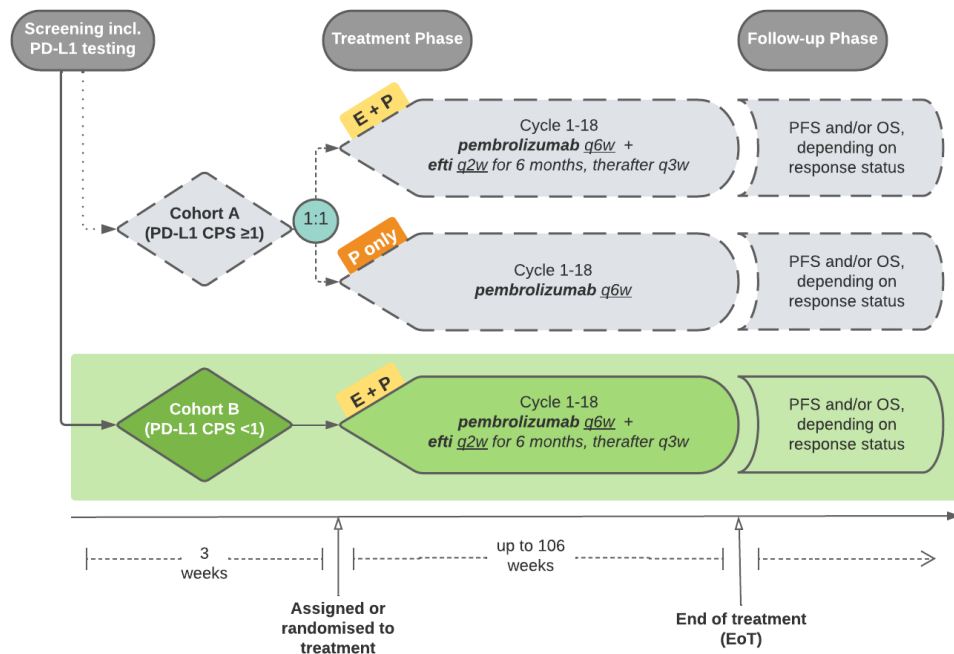
PD-L1 TPS	<1%, N=32	1-49%, N=38	≥50%, N=20
Objective response rate (iRECIST), %	31.3	44.7	55.0

² Carcereny E et al, Combining the antigen-presenting cell activator eftilagimod alpha (soluble LAG-3) and pembrolizumab: Overall survival data from the first line non-small cell lung carcinoma (NSCLC) cohort of TACTI-002 (phase II), Annals of Oncology; 34, S755-S851(2023). <https://doi.org/10.1016/j.annonc.2023.09.2346>

STUDY DESIGN

TACTI-003: a multicentre, randomized, open-label Phase IIb trial with 2 cohorts:

- Cohort A*: CPS ≥ 1 patients randomized 1:1 to receive eftilagimod plus pembrolizumab or pembrolizumab alone.
- Cohort B**: CPS < 1 patients treated with eftilagimod and pembrolizumab.



CPS: combined positive score; OS: overall survival; PD-L1: programmed cell death ligand 1; PFS: progression free survival; Q(2,3..)W: every (2,3..) weeks; Note 1 cycle= 6 weeks.

*Detailed results from Cohort A will be presented in H2 2024.

**no randomization.

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TREATMENT, ASSESSMENTS & ENDPOINTS

Treatment: efitlagimod 30 mg s.c. + pembrolizumab IV 400 mg Q6W for max. 2 years.

Radiological assessments performed Q9W for 36 weeks, thereafter Q12W and assessed locally by Investigator.

Primary endpoint: ORR by RECIST 1.1.

Secondary endpoints: ORR by iRECIST, DoR, TTR, safety, PFS, OS, immunogenicity & QoL.

CPS: combined positive score; DoR: duration of response; IV: intravenous; ORR: objective response rate; OS: overall survival; PD-L1: programmed cell death ligand 1; PFS: progression free survival; Q(2,3..)W: every (2,3..) weeks; QoL: quality of life; s.c.: subcutaneous; TTR: time to response.

DEMOGRAPHICS & BASELINE CHARACTERISTICS

Baseline parameters	N=31 ¹
Median age, years (range)	64 (23-83)
Female / Male, %	25.8 / 74.2
ECOG 0 / ECOG 1, %	32.3 / 67.7
Current / Ex-smoker / Never smoker, %	25.8 / 61.3 / 12.9
Primary tumour, %	
Oral cavity	29.0
Oropharynx (HPV + / -)	35.5 (12.9 / 22.6)
Hypopharynx	3.2
Larynx	32.3
Baseline disease status, %	
Local only	16.1
Local and metastatic	22.6
Metastatic only	61.3

- 33 patients were recruited at 14 sites across 6 countries between Apr 2022-Oct 2023.
- 31 patients were evaluable for efficacy per protocol (≥ 1 evaluable post-baseline scan).
- CPS used for randomization/enrollment was assessed using FDA-approved kit (IHC 22C3 pharmDx).
- Median exposure for eftilagimod of 23.7 weeks (range: 0.1-63.3) and for pembrolizumab 22.1 weeks (0.1-63.1).

¹Evaluable population.

Data cut-off date: March 11, 2024

SAFETY

Summary of TEARs (Safety population)

Safety parameters, n (%)	N=33
Any TEARs	24 (72.7)
Any TEARs with Grade ≥ 3	5 (15.2)
Any TEARs Leading to Discontinuation of Study Treatment ¹	3 (9.1) ²

- No new safety signals were observed.
- Immune-mediated adverse reactions were seen in 39.4% of patients, Grade 1-2 (30.4%) and Grade 3 (9.1%).
- Local injection site reactions were observed in 18.2% of patients (all Grade 1).

¹ Study treatment: efitilagimod and/or pembrolizumab.

² Immune thrombocytopenia (G4), Immune-mediated hepatitis (G3), Laryngeal obstruction (G4).

TEAE: treatment-emergent adverse event; TEAR: treatment-emergent adverse reaction.

Most frequent TEAEs (Safety population)

Preferred term (incidence $\geq 15\%$), n (%)	N=33
Fatigue	7 (21.2)
Weight decreased	6 (18.2)
Hypothyroidism	6 (18.2)
Pyrexia	5 (15.2)
Arthralgia	5 (15.2)
Gamma-glutamyltransferase increased	5 (15.2)
Anaemia	5 (15.2)

Data cut-off date: March 11, 2024

TUMOUR RESPONSE SUMMARY

Best objective response ¹ , n (%)	RECIST 1.1 N=31	iRECIST N=31
Complete response	3 (9.7)	3 (9.7)
Partial response	8 (25.8)	9 (29.0)
Stable disease	7 (22.6)	8 (25.8)
Progressive disease	13 (41.9)	11 (35.5)
ORR, [95% CI]²	11 (35.5) [19.2-54.6]	12 (38.7) [21.8-57.8]
DCR, [95% CI]²	18 (58.1) [39.1-75.5]	20 (64.5) [45.4-80.8]

¹ unconfirmed responses per Investigator read.

² calculated using Clopper-Pearson method.

³ per RECIST 1.1.

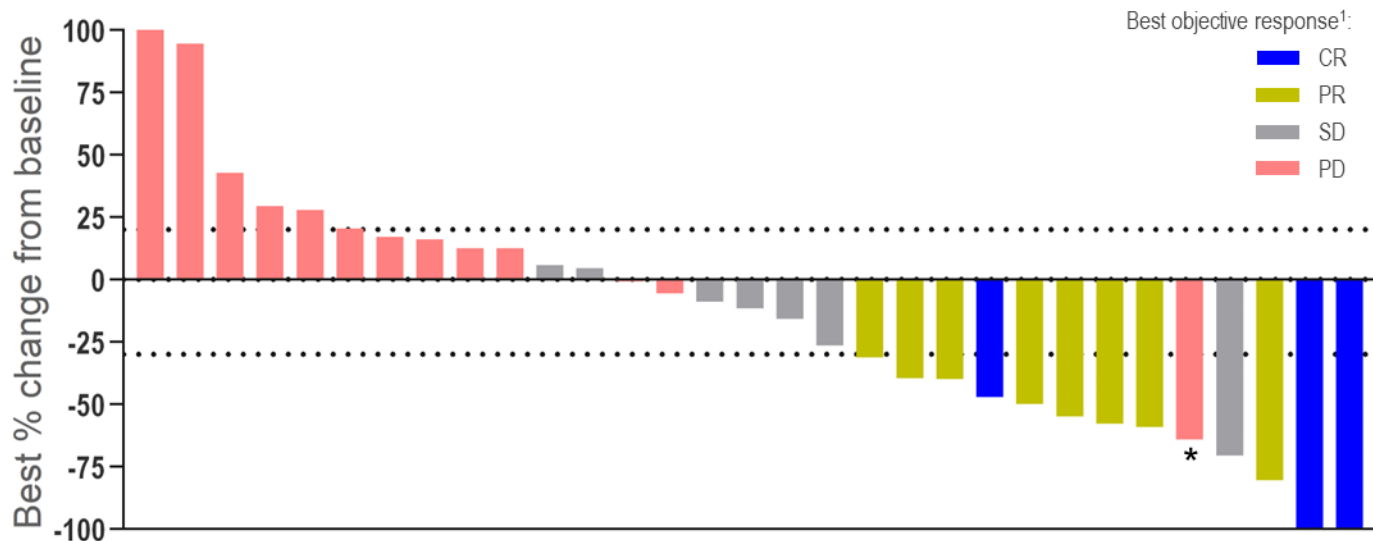
⁴ per iRECIST.

- ORR^{1,3} of 35.5% and DCR^{1,3} of 58.1%, including ~10% complete responses.
- 10 responses⁴ were confirmed until data cut-off.
- Responses are observed regardless of HPV status* (1/4 HPV-positive and 2/7 HPV-negative patients were responders).

*in patients with primary oropharyngeal tumours only.

Data cut-off date: March 11, 2024

CHANGE IN TUMOUR BURDEN BY RECIST 1.1

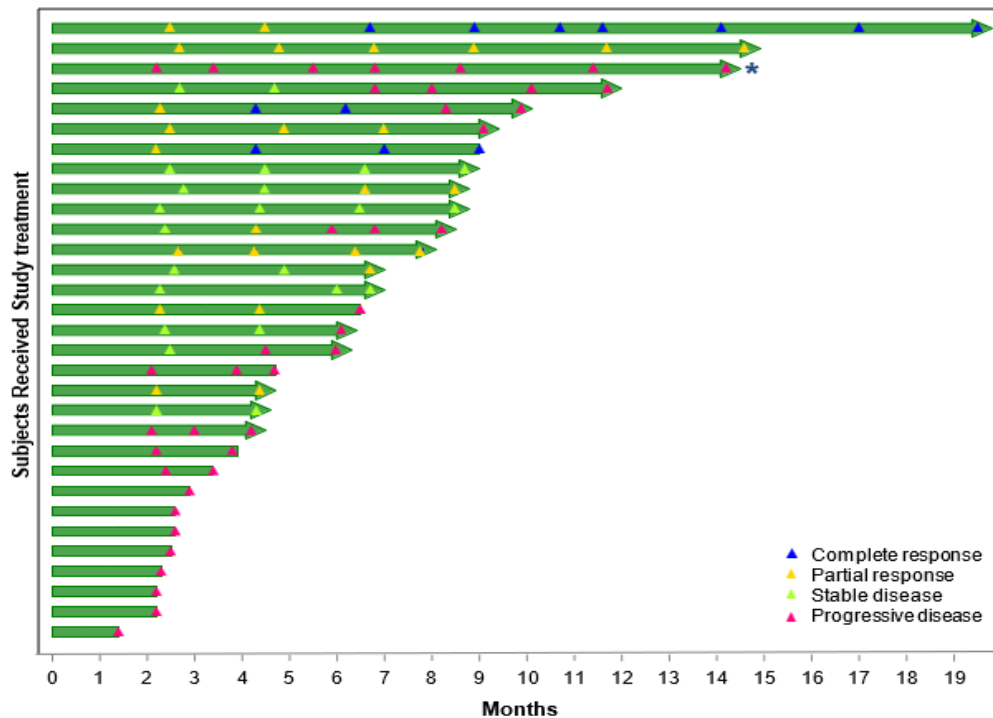


- ◆ ~60% experienced tumour shrinkage.
- ◆ 1 patient* with early pseudoprogression, resulting in later durable response (still on treatment >14 mo).

¹ unconfirmed responses per RECIST 1.1, Investigator-assessed.
Includes one complete response with a best % change of -47%. This patient had one target lesion of the lymph node, which shrunk to <10 mm.

Data cut-off date: March 11, 2024

TUMOUR RESPONSE DYNAMICS OVER TIME



- ◆ 71% of patients remain on treatment for at least 4 months.
- ◆ ~50% remain on treatment >6 months.

Each bar represents one patient in the study. The right arrow cap indicates patients who are ongoing. Responses are per RECIST 1.1.

* 1 patient with clear pseudoprogression early and durable response later (still on treatment >14 months).

Data cut-off date: March 11, 2024

CONCLUSIONS



- Eftilagimod plus pembrolizumab led to a clinically meaningful objective response rate (ORR) of 35.5% (95% CI: 19.2-54.6) in 1st line HNSCC patients with PD-L1 CPS <1.
- ORR compares favorably to historical results (5.4% ORR in 2/37 evaluable patients) of anti-PD-1 monotherapy in 1L HNSCC¹.
- DCR is above 50% and ~50% of patients are on treatment beyond 6 months.
- Eftilagimod plus pembrolizumab is safe and well-tolerated with no new safety signals.
- Based on the encouraging response rate and the high unmet medical need in this indication, further investigation of eftilagimod plus pembrolizumab is warranted.

¹KN-048: J Clin Oncol. 2022 Jul 20;40(21):2321-2332. doi: 10.1200/JCO.21.02198.

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Thank you to all the participating patients and their families.

And thank you to all participating sites:

The Christie NHS Foundation Trust, Manchester, UK; Ulm University Medical Center, Department of Otorhinolaryngology and Head & Neck Surgery, Germany; Copenhagen University Hospital - Rigshospitalet, Copenhagen, Denmark; Arensia Exploratory Medicine – Institutul Oncologic, Cluj Napoca, Romania; Vall d'Hebron Institute of Oncology (VHIO), Barcelona, Spain; Hospital Universitario Ramón y Cajal, Madrid, Spain; Nationales Centrum für Tumorerkrankungen Heidelberg, Heidelberg, Germany; Hospital de la Santa Creu i de Sant Pau, Madrid, Spain; AZ Sint-Jan Brugge, Belgium; UCL Cancer Institute-University College London Hospitals NHS Foundation, London, UK; Antwerp University Hospital, Edegem, Belgium; Hospital Universitario Lucus Augusti, Lugo, Spain; Nottingham University Hospitals, NHS Trust, Nottingham, UK.

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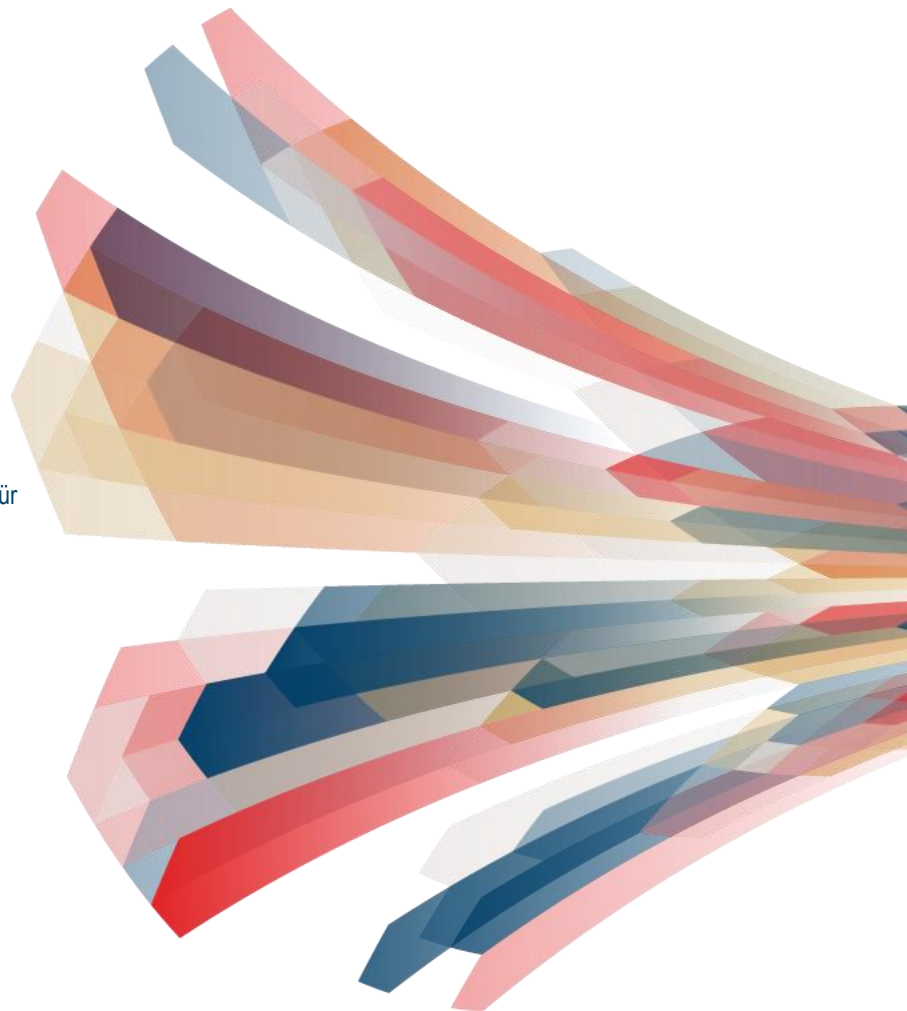
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