



**Hello TEAM PA**

PA Engineering Meeting

Feb 27, 2024



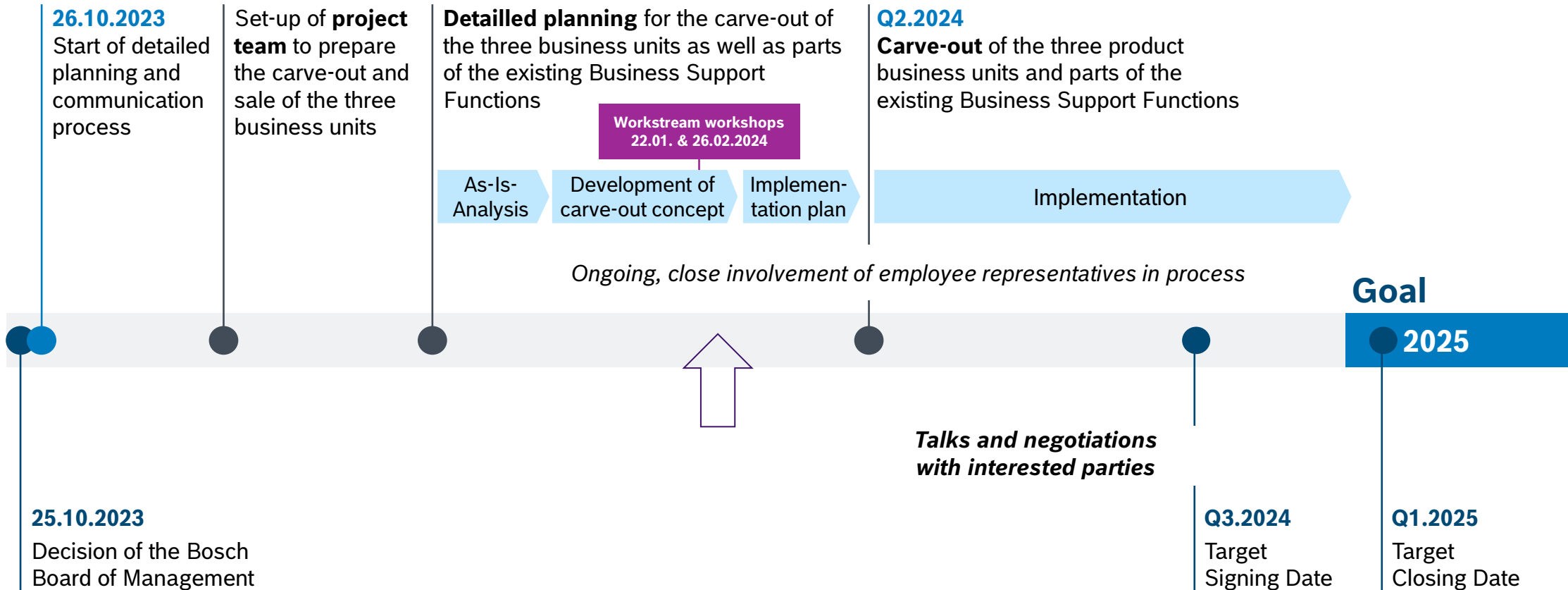
# PA Engineering Meeting

## Agenda

- NewCo news, what is next ....
  - Re-branding
  - IT workstream
- Employee changes
- Growth plans status
  - Open vacancies
- PA business status
- Observations ISE '24
- Project Landscape & Project priorities & Project updates
  - SW roadmap
- ENG1 behind the scenes
  - PA floorplan Building TX
- Q&A

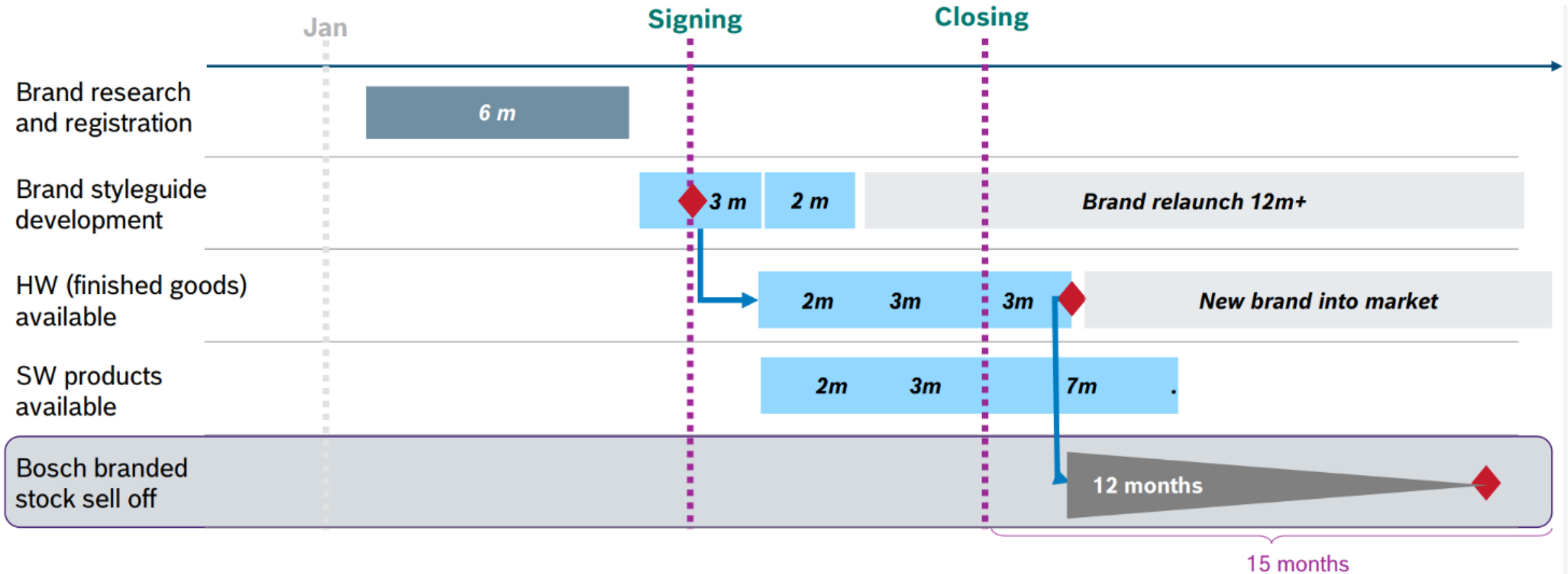
# PA Engineering Meeting

## How do we make the change happen?



# PA Engineering Meeting

## Re-branding



# PA Engineering Meeting

## Re-branding

Scrap  
?ME

ASA  
0ME

Certification  
2ME

Training  
2KE

HWM, HWE, SW  
9.5ME

LFL India & China  
200K

**BT-CO: 12+ ME**  
**(Hours + Materials)**

Marketing  
5ME

Packaging & Customer documentation  
BT: 2.5ME



# PA Engineering Meeting

## New PA Colleagues

# Welcome

- **Alexandra Ioan** (BT-CO/ENG1)

-> Role: Student Fontys -> Knowledge Kiosk

- **Andre Sniekers** (BT-CO/ENG1)



-> Role: Student Fontys -> Pre-studies AiO

- **Anh Truong** (BT-CO/ENG1)

-> Role: Data Analyst

### Coming soon:

- March 1: **Ireen Spoormakers** (BT-CO/ENG1)



-> Role: Management Assistant

- March 11: **Francisco Fonseca** (BT-CO/ENG1.1)

-> Role: Infrastructure Engineer

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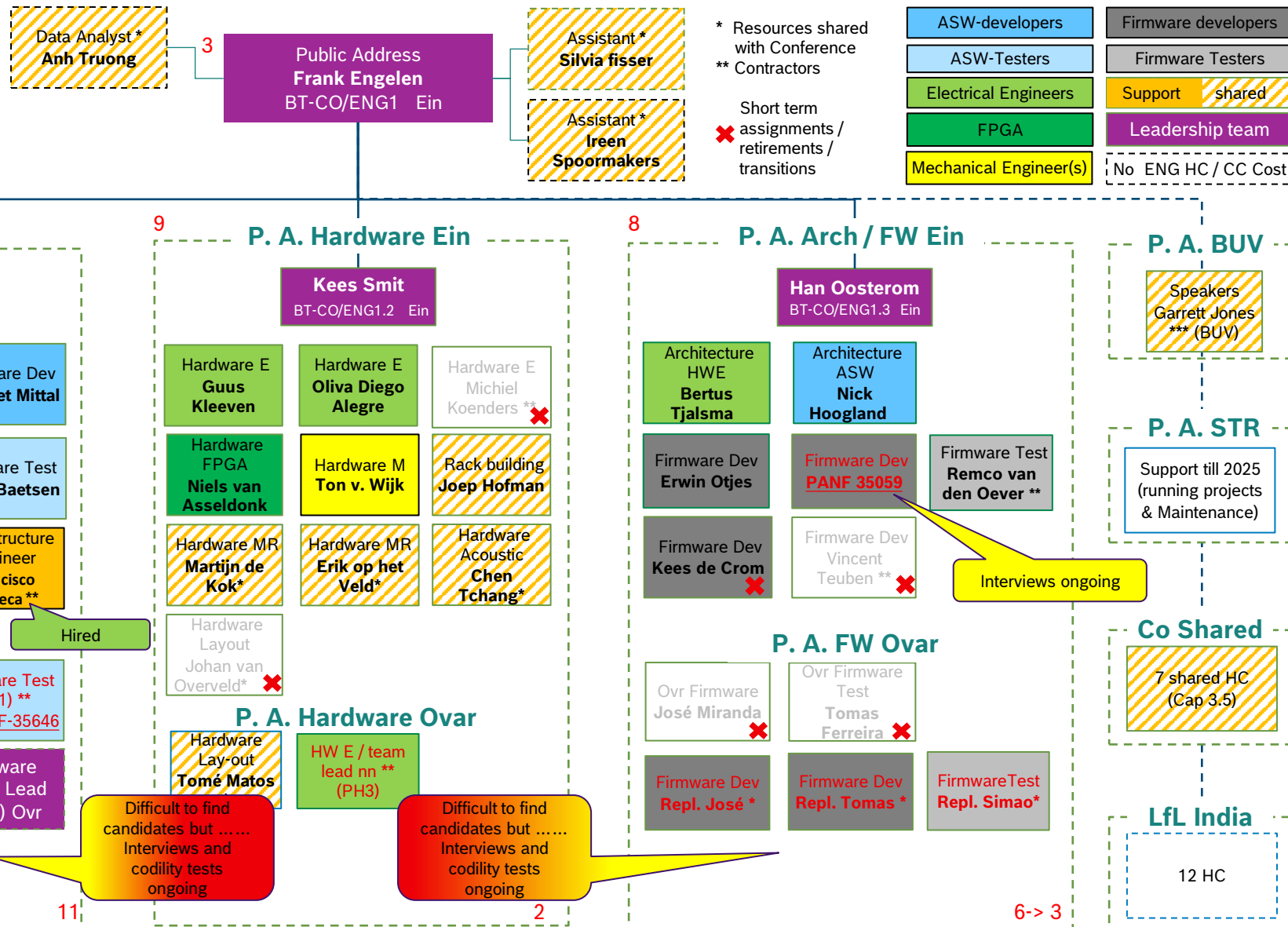
## Colleagues leaving

*Thank  
you!*

- **Vincent Teuben** -> Special assignment Wall Control Panel ending
- **Michiel Koenders** -> Special assignment CS extension Kit ending
- **Ger van Dongen** -> Retired

# PA Orch. Chart

## Discipline view



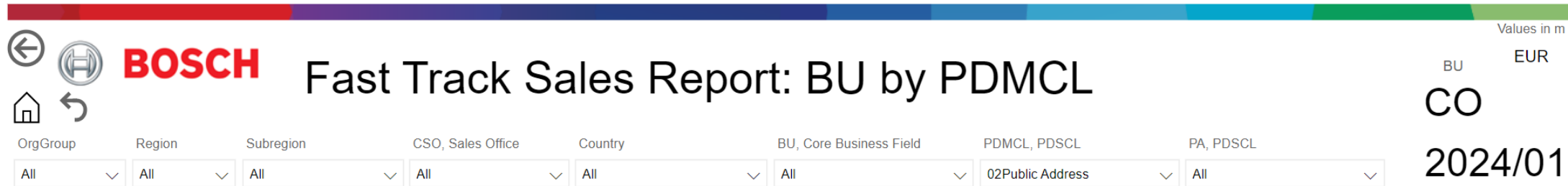


# PA Business update

TNS, IM1, EBIT, R&D budget, NPI's

# PA Engineering Meeting

## Jan '24



Org. Group	Jan	Feb	Mar	YTD03	vs. BP woc	Apr	May	Jun	YTD06	vs. BP woc	Jul	Aug	Sep	YTD09	vs. BP woc	Oct	Nov	Dec	YTD12	vs. BP woc	YTD	vs. BP woc	% BP woc	STG to BP woc	TY BP	TY FC	TY PY
▼																											
RSO	9.51			9.51	9.40				9.51	9.40				9.51	9.40				9.51	9.40	9.51	9.40	-100....	94.49	103.89		109.40
Sales to IB	0.31			0.31	0.31				0.31	0.31				0.31	0.31				0.31	0.31	0.31	0.31	-100....	3.07	3.38		3.50
ASA	0.08			0.08	0.08				0.08	0.08				0.08	0.08				0.08	0.08	0.08	0.08	-100....	0.89	0.97		1.05
Global/OEM																								-5.50	-5.50		0.00
Total	9.90			9.90	9.78				9.90	9.78				9.90	9.78				9.90	9.78	9.90	9.78	-100....	92.95	102.73		113.95

# Observations ISE '24



# ISE 2024

## Bosch Booth + feedback



# ISE 2024

## Observations Competition

- TOA -> IP speaker system
- AtlasIED -> non EVAC
- Zenitel -> trying to move onshore
- LPP competition -> EN54



# ISE 2024

## Cloud

- LDA
  - Starting but not nothing big yet (monitoring remotely)
- In general, no big cloud announcements or movement from competition
- In adjacent markets monitoring / remote update is sometimes offered (monetization / business model not always clear as it is offered free of charge)



# ISE 2024

## Other trends + observations

- MED speakers DNV
- Extron -> smooth GUI for audio control in different rooms
- Samsung -> digital interaction



MED B certificate	Product cat.	Product	Art no
MEDB00008NV	EX	BA-56ExeNT-MED	5881xx
MEDB00008NU	Ceiling	BP-361 ST-MED	4739xx
MEDB00008NU	Ceiling	BP-361 T-MED	4739xx
MEDB00008NU	Ceiling	BPF-660 IPT-MED	4180xx
MEDB00008NU	Ceiling	BPF-660 T-MED	4180xx
MEDB00008NU	Ceiling	BS-560T-MED	4236xx
MEDB00008NT	Cabinet	CAR-6T-MED	4827xx
MEDB00008NT	Cabinet	CAS-15-54 T-MED	4463xx
MEDB00008NT	Cabinet	CP-6 T-MED	4171xx
MEDB00008NT	Cabinet	CP-66 T-MED	4173xx
MEDB00008NW	Horn	DSP-15 T-MED	3383xx
MEDB00008NW	Horn	DSP-15-54 T-MED	3354xx
MEDB00008NV	EX	DSP-15ExmNLT-MED	6094xx
MEDB00008NV	EX	DSP-15ExmNLT-MED	6094xx
MEDB00008NV	EX	DSP-15ExmNLT-MED	6093xx
MEDB00008NV	EX	DSP-15ExmNLT-MED	6093xx
MEDB00008NV	EX	DSP-15ExmNLT-MED	6093xx
MEDB00008NV	EX	DSP-15ExmNLT-MED	6093xx
MEDB00008NV	EX	DSP-15ExmNLT-MED	6093xx
MEDB00008NV	Horn	HP-10 T-MED	3103XX
MEDB00008NW	Horn	HP-10-54 T-MED	3102xx
MEDB00008NW	Horn	HP-15 T-MED	3139xx
MEDB00008NW	Horn	HP-20 ExmNLT-MED	3179xx
MEDB00008NV	EX	HP-20 T-MED	3145xx
MEDB00008NW	Horn	HP-30T-MED	3146xx
MEDB00008NW	Horn	HP-6 CT-MED	3077xx
MEDB00008NW	Horn	HPS-6 CT-MED	3091xx
MEDB00008NT	Cabinet	MC-50T-MED	4702xx
MEDB00008NT	Cabinet	MH-30T-MED	4622xx
MEDB00008NT	Cabinet	SAFE-10P-54T-MED	4095xx
MEDB00008NT	Cabinet	SAFE-10PT-MED	4096xx
MEDB00008NT	Cabinet	SAFE-15 T-MED	3226xx
MEDB00008NT	Cabinet	SAFE-561 IPT-MED	4198xx
MEDB00008NT	Cabinet	SAFE-561-54T-MED	4199xx
MEDB00008NU	Ceiling	VES-561-54T-MED	4294xx
MEDB00008NU	Ceiling	VES-561T-MED	4293xx

# PA Roadmap



# PA Segment Review

## Project priorities

- Ranking unchanged
- Closed:
  - MPS HW update (UL)
  - Metal Firedome “virtually” passed QG4
- Router amplifier
  - Ramp-up slower as planned, but opportunities to recover.
    - EML capacity from Audio module later as expected

### HW resource priorities

Prio	Project
1	Wall Control Panel
2	JFK Handheld MIC
3	SW release train
4	UL2572 update
5	Audio Module (SAB/EIN)
7	Metal Fire Dome (TG-Born)
8	Titan (SAB)
9	Extension Kit (PRA-CSEK)
10	German Fireman's Panel (TG-IFAM)
12	Router Amplifier
13	End of Branch
14	MED implementation
15	EN54 network peripherals (TG)

# PA Segment Review

## SW Project priorities

- Delay in onboarding SW team for growth plan has (TBD) impact on roadmap
- New development needs / requests
  - Pen-test finding -> Highest Priority
  - NF business opportunity in France
  - UR 26 safety requirements for maritime
  - Re-branding
- Capacity growth
  - Max focus on SW recruitment plan
  - Chasing resiliency initiatives to bring back SW dev. team back to full force (5 -> **3** -> 5)

## SW resource priorities










Prio	Project	Size	Must dates
1	Wall Control Panel	22	Q1 '24
2	PEN test finding	?	Q1 '24
3	Call stacking	46	Q2 '24
4	UR 26 (Security MED)	?	
5	Audio Module	60	Nov '24
6	NF	25	
7	UL update	?	
8	CAP 9.30	17	
9	MED	100	Mar '25
10	Router-Amp	200	Q3 '25
11	End of Branch	30	
12	Re-branding	?	Q1 '25
13	Pre-dev AiO	?	
14	Pre-dev CS successor	?	

ASK commit



# PA Engineering Growth Plan

## Project staffing impact

Project	Status	Remark	Time Impact
Router amplifier		Critical capacity available to get started. <b>EML hiring timeline</b> and transition of EML to IS will be critical for success	+/- 6m -> Dec '25
End of Branch		Positive feeling to be able to start on time with hiring plan	Starts control on track
Call stacking (SW only)		Made good progress because other planned activities were not ready to start. Looking into early beta release for NA airports	Running ahead on schedule
Pre-dev. CS successor		HW resources available when <b>delay of router amplifier</b> can be managed	Too early to say
Maritime Directive (MED)		HW resources hired, <b>SW resources</b> (Ovar) not available. Impact can be estimated when onboarding starts	Too early to say
All-in-One		Success depending on <b>PH2 &amp; 3 hiring</b> which is not yet approved	Too early to say
Call Station Successor		Success depending on <b>PH2 &amp; 3 hiring</b> which is not yet approved	Too early to say
Public Address Release train		Success depending on <b>PH2 &amp; 3 hiring</b> which is not yet approved	Too early to say
Pre-dev All-in-One		HW resources available when <b>delay of router amplifier</b> can be managed. SW capacity depending on <b>PH2 &amp; 3 approval</b> and onboarding.	Too early to say

**ENG1**



**BEHIND  
THE  
SCENES**

# PA Engineering Meeting

## PACo TX Workgroup



- Erwin P

### Public Address:

- Kees S
- Bertus T
- Lars K
- Jeroen A
- Roger V
- Frank E

### Conference:

- Kerim E
- Jeroen W
- Rutger H
- Joppe E
- Lars v/d H

# PA Engineering Meeting

## TX constraints

### ▪ Reduction of floor space

- Because of hybrid working, the targeted occupation is 60%  
60% of 400 (employees) = about 250 workspaces
- Some workspaces & labs will not be reduced with 40%
- Some workspaces will become flex spaces

Eg: SW team PA, including flex places 10 employees → 7 positions

### ▪ Open office

### ▪ BT-CO ENGx will be divided over **2 floors**

3 & 4, for PACo, including MKP, MKA, MKR and some 'management'

# PA Engineering Meeting

## Space calculation

Afdeling	Namen	Personen	Aantal eenheden	werken voor	m² per eenheid	bezetting	plaatsen in TX	vloer 3 PA		vloer 4 Conf	
								plaatsen	m²	plaatsen	m²
MKP1 (PA)	Douwe G , Steven v R, Twan v D, Roel Verst, Joachim L	5	5	PA	8	60	4	4	32		0
storage MKP1 PA/speakers 450+406	storage en demoruime: Wens om deze op de verdieping te hebben		1	PA	35	100	1	1	35		0
MKA PA 1.2	Anton T, Vacature	2	2	PA	8	60	2	2	16		0
SW team PA	Lars K, Nick B, Kees de C, Mittal N, Nick H, Jeroen A, Gerrit T, Ger v D, Flex 1, Flex 2 (2 x flex 100%, 1x80%)	10	10	PA	8	60	7	7	56		0
Testruimte PA, incl Roger en Harry Room 4.21 (10,7m x 5m)	Roger V, Harry N	2	1	PA	38	100	1	1	38		0
Testruimte PA, incl Frans, Gorkem en Mo Room 4.22 (7,8m x 5m)	Frans B, Mohammed A, Gorkem N	3	1	PA	38	100	1	1	38		0
Testruimte groot testsysteem PA Room 4.60 (11,3m x 3,9m)			1	PA	44	100	1	1	44		0
Architecture team PA	Han O, Nick H, Erwin O, Vincent T, Remco vd O, panf 35059, Bertus T	2	2	PA	10	60	2	2	20		0
Technical Room MKA PA 1.2	Nu 361. Op de verdieping		1	PA	20	100		1	20		0
HWM PA	Ton van Wijk	1	1	PA	10	60	1	1	10		0
HWE PA	Kees S, Niels v A, Guus K, Bertus T, HWE designer panf 35085, HWE tester panf 35208	6	6	PA	10	80	5	5	50		0
Director & secretary PA	Frank E, Silvia F	2	2	PA	8	60	2	2	16		0
Projectruimte PA			1	PA	30	100	1	1	30		0
MKP4 (Conf)	Lars vd H, Roel Verh, Derk-Jan E, Kahloh L, Sjack S, Murat K, Vincent V, vacancy 1, vacancy 2	9	9	Conf	8	60	6		0	6	48
Technical Room MKP4	Naaast de Hybrid test en demo room (Nu 507)		1	Conf	20	100	1		0	1	20
Hybrid test and demo room MKP4	Naast de Technical Room MKP4 (Nu 519)		1	Conf	20	100	1		0	1	20
MKA CO 1.2	Bas B, Jeroen de G	2	2	Conf	8	60	2		0	2	16
Technical Room MKA CO 1.2	Nu 360. Op de verdieping. Samen met MKP4 (Conf) gebruiken?		1	Conf	20	100	1		0	1	20
SW team Conference	Cati B, Kadir O, Kerim E, Koen F, Yogesh K, Theo D, Deendayal S, Jaap v R, Kemal S, Suganya S, Akor G, Hamza I, Joppe E, Johan M, Flex 1, Flex 2	16	16	Conf	8	60	10		0	10	80
Testruimte groot testsysteem Conf Room 5.60			1	Conf	44	100	1		0	1	44
Testruimte Conf 5.22	Zitten hier testers?		1	Conf	38	100	1		0	1	38
Architecture team Conference	Hans vd S, Tim Vr, John M, Harish M, Antonie v W, Robert B, Anton P, Rutger H, apprentice 1, apprentice 2	6	6	Conf	10	60	4		0	4	40
HWM Conference	Jeroen W, Ko van B, Martien Kas, Harish M	4	4	Conf	10	60	3		0	3	30
HWE Conference	Paul Gr, Patrick T, Tim Vr	3	3	Conf	10	80	3		0	3	30
Director & secretary Conf	Kiran S, Secretary panf	2	2	Conf	8	60	2		0	2	16
Projectruimte/Ideation room Conf			1	Conf	30	100	1		0	1	30

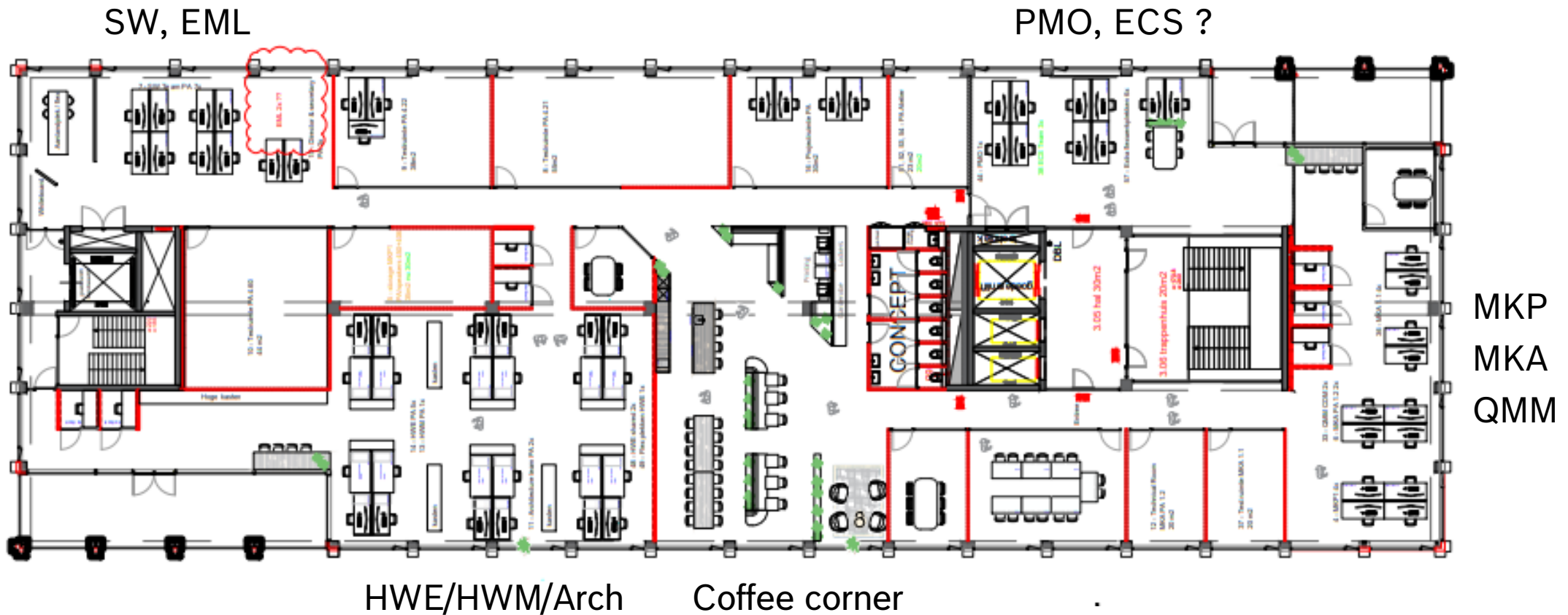


# PA Engineering Meeting Wishes

- R&D PA located on the same floor (also applies to Conference)
- Team members of eg SW team situated together
- R&D teams SW, EML, HW, Test close together
- MKP PA located close to R&D
- Space for small test systems
- Flexible places for interns, colleagues from Ovar etc
- As much day-light as possible
- Screens and docking stations on every desk, everybody has his/her's own keyboard and mouse that can be stored somewhere
- Low noise:
  - A lot of small (telephone) booths for meetings and telco's
  - Big Test systems in closed lab's
  - Measures to reduce noise (eg glass walls)

# PA Engineering Meeting

## Review drawings & formulate wishes -> work in progress .....





# FOCUS



## When it matters

(Critical Chain Task)



## “Raise Hand”

(When your focus is shifting)

# PA Engineering Meeting

## Thank you

- **All involved in:**

Finding the root cause of the MPS belt stop

Resolving the programming issue to start Wall Control Panel D-run

*Thank  
you!*

**Q & A**    **TEAM** **PA**