6TH SPACE PASSIVE COMPONENTS DAYS

SPCD 2026: Welcome Speech

13–16 October 2026

ESA/ESTEC — Noordwijk, The Netherlands



Dr. Ali Zadeh

Head of the Avionics and EEE Division (TEC-ED)
European Space Agency (ESA)

Welcome to ESTEC

- ESA's largest site & technical heart
- Engineers, technicians and scientists work hands-on with mission design, spacecraft and space technology
- Most ESA projects are managed from ESTEC:
  - Technology
  - Human Spaceflight & Exploration
  - Earth Observation
  - Science missions
  - Telecom missions & projects
  - Satellite navigation

Welcome to SPCD 2026

6TH SPACE PASSIVE COMPONENTS DAYS

13-16 Oct 2026 · ESA/ESTEC





Why SPCD matters?

- Bridges space industry, agencies, and academia in one forum.
- Focus on reliability, qualification, and new technologies for passive parts.
- Covers the full lifecycle: from technology development to supply-chain procurement.
- International symposium dedicated exclusively to exclusively to EEE Passive components for space. space.

JOINTLY ORGANISED BY

esa DLR cnes ESCC

Partners & Sponsors

EPCI European Passive Components Institute

EEE SEMINAR

Positronic an Amphenol company

CONFERENCE BAGS

KYOCERA AVX

LEAFLET

SRT MICROCÉRAMIQUE MLCC CAPACITORS

COFFEE BREAKS

PERFORMANCE INTERCONNECT

GALA DINNER

Littelfuse Expertise Applied | Answers Delivered

WATER BOTTLES

Panasonic INDUSTRY

GALA DINNER

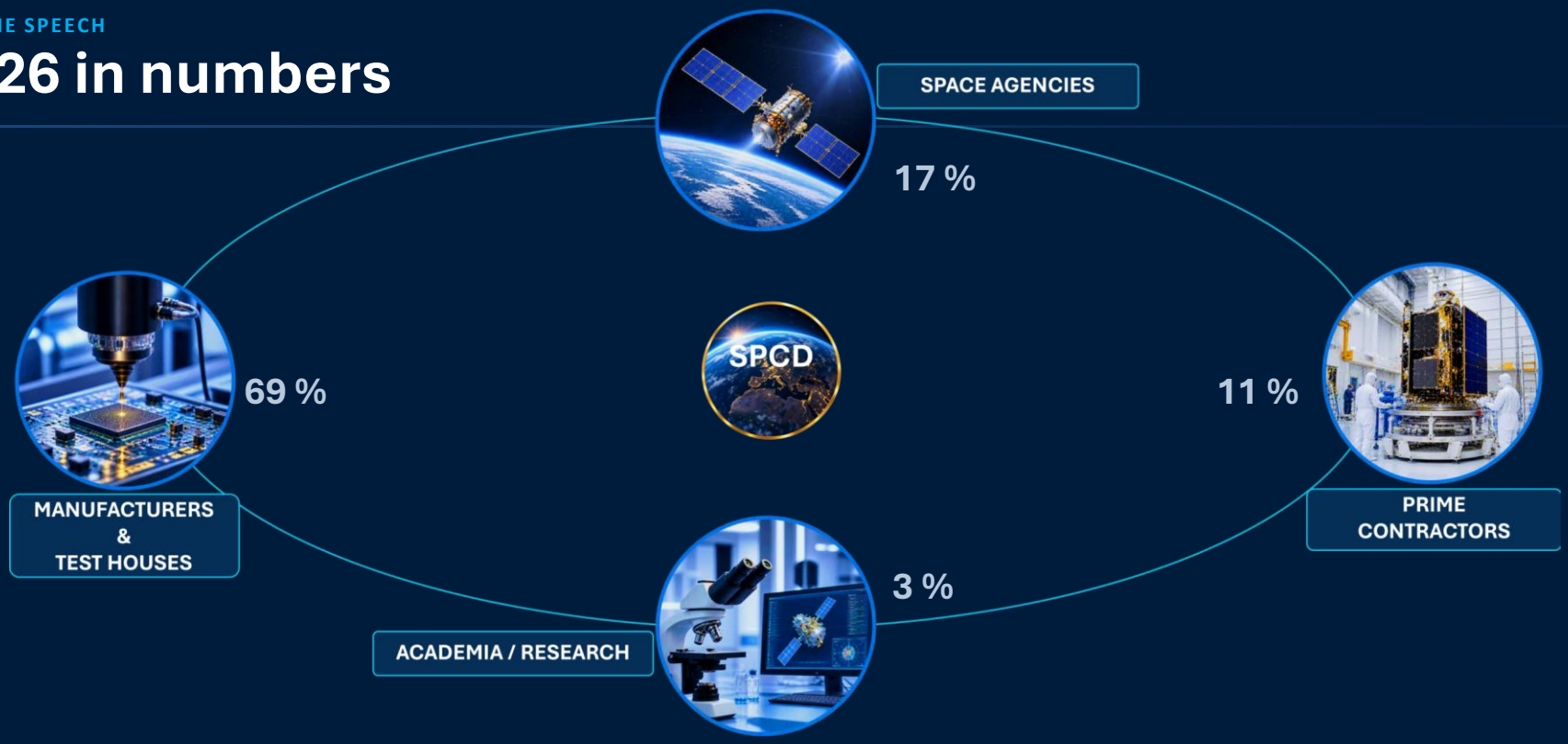
EATON Powering Business Worldwide

GALA DINNER

YAGEO GROUP KEMET

GALA DINNER

SPCD 2026 in numbers



Participants 235

Countries 24

Sponsors 9

Oral Presentations 31
45 Received • 6 Cancelled • 8 Rejected

Posters 9
11 Received • 2 Canceled

TICs 22
30 Received • 2 Cancelled • 6 Rejected

Exhibition 33
9 Waiting List

Private Roadmaps 2

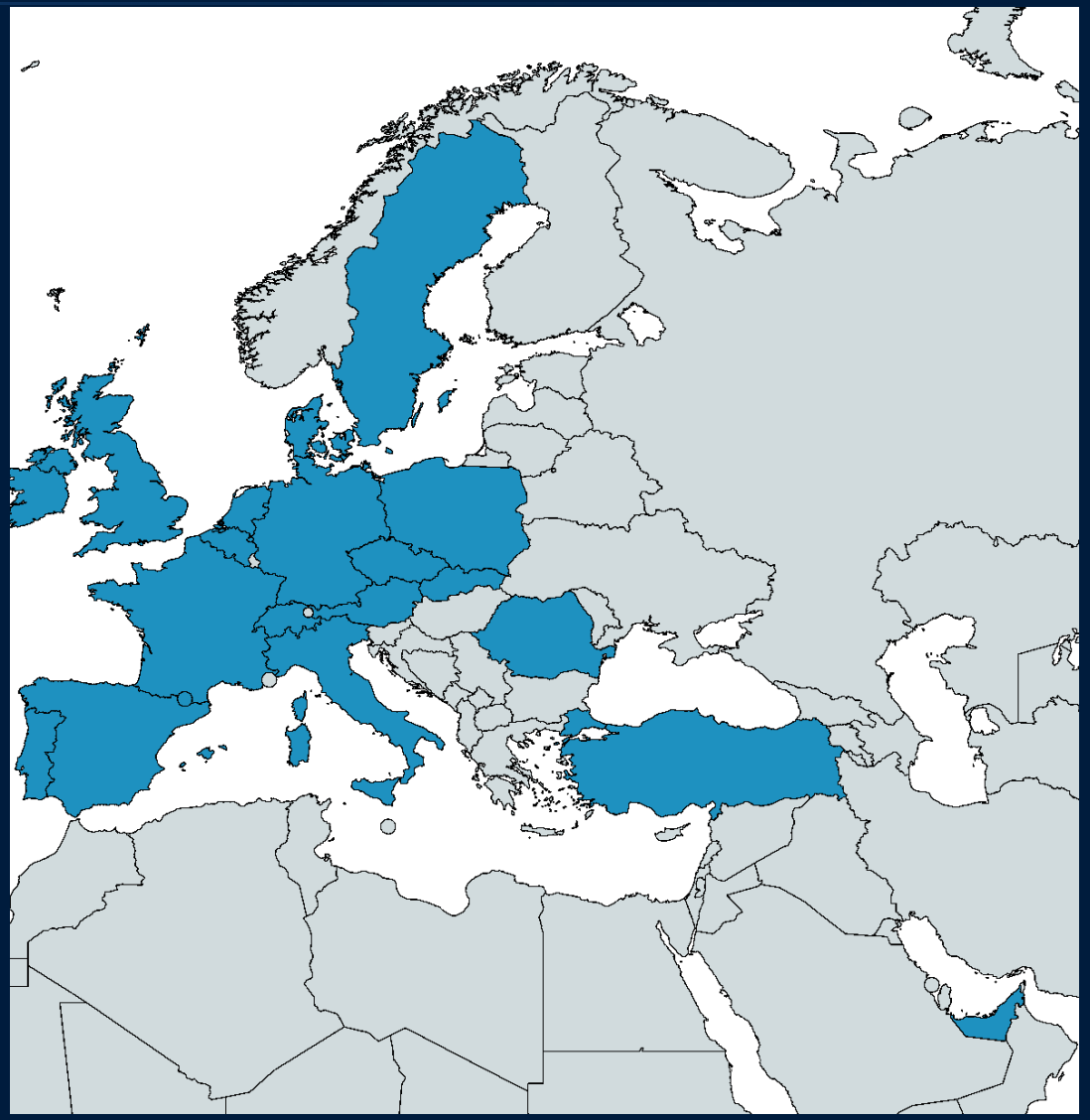
Interactive Panel
No EEE No Sovereignty

SPCD 2026 in numbers





SPCD	Participants	Countries
1st edition	212	21
2nd edition	221	19
3rd edition	235	23
4th edition	235	21
5th edition	240	24
6th edition	235	24



Programme at a Glance

Tuesday 13 OCTOBER	Wednesday 14 OCTOBER	Thursday 15 OCTOBER	Friday 16 OCTOBER
08:30 ESCC Training course	**08:30** Registration **09:30** Welcome Speech **10:10** Oral Sessions **12:10** TICs	**09:00** Oral Sessions **11:30** TICs	**09:30** Oral Sessions **12:40** Closing Session & Award Ceremony AWARDS
12:00 Lunch	**13:00** Lunch	**13:00** Lunch	**13:00** Lunch
13:00 ESCC Chief Inspector Meeting **14:00** EEE Seminar **16:00** ESA Site Tour	**14:00** Private Roadmap **14:30** Poster Session **15:20** TICs **16:00** Oral Sessions	**14:00** Private Roadmap **14:30** Oral Sessions **17:00** Interactive Panel Discussion « No EEE, No Sovereignty »	
	18:00 Welcome Drink ESTEC Erasmus High Bay	**19:30** Gala Dinner · Beach Pavilion “De Zeemeeuw”	

Pre-conference Events

09:30 – 12:00

ESCC Training Course

TUESDAY 13 OCT

13:00 – 16:00

ESCC Chief Inspector Meeting

TUESDAY 13 OCT · INVITATION ONLY

14:00 – 16:00

EEE Passives Seminar

TUESDAY 13 OCT · DR. T. ZEDNICEK

EPCI
European Passive Components Institute

16:00 · ~2 hrs

ESA Site Tour

TUESDAY 13 OCT · 40 PLACES

Tuesday 13 October 2026

ESCC Training Course — covers ESCC activities, the specification system, component qualification and manufacturers' certification processes.

ESCC Chief Inspector Meeting — invitation-only session for chief session for chief inspectors (13:00–16:00).

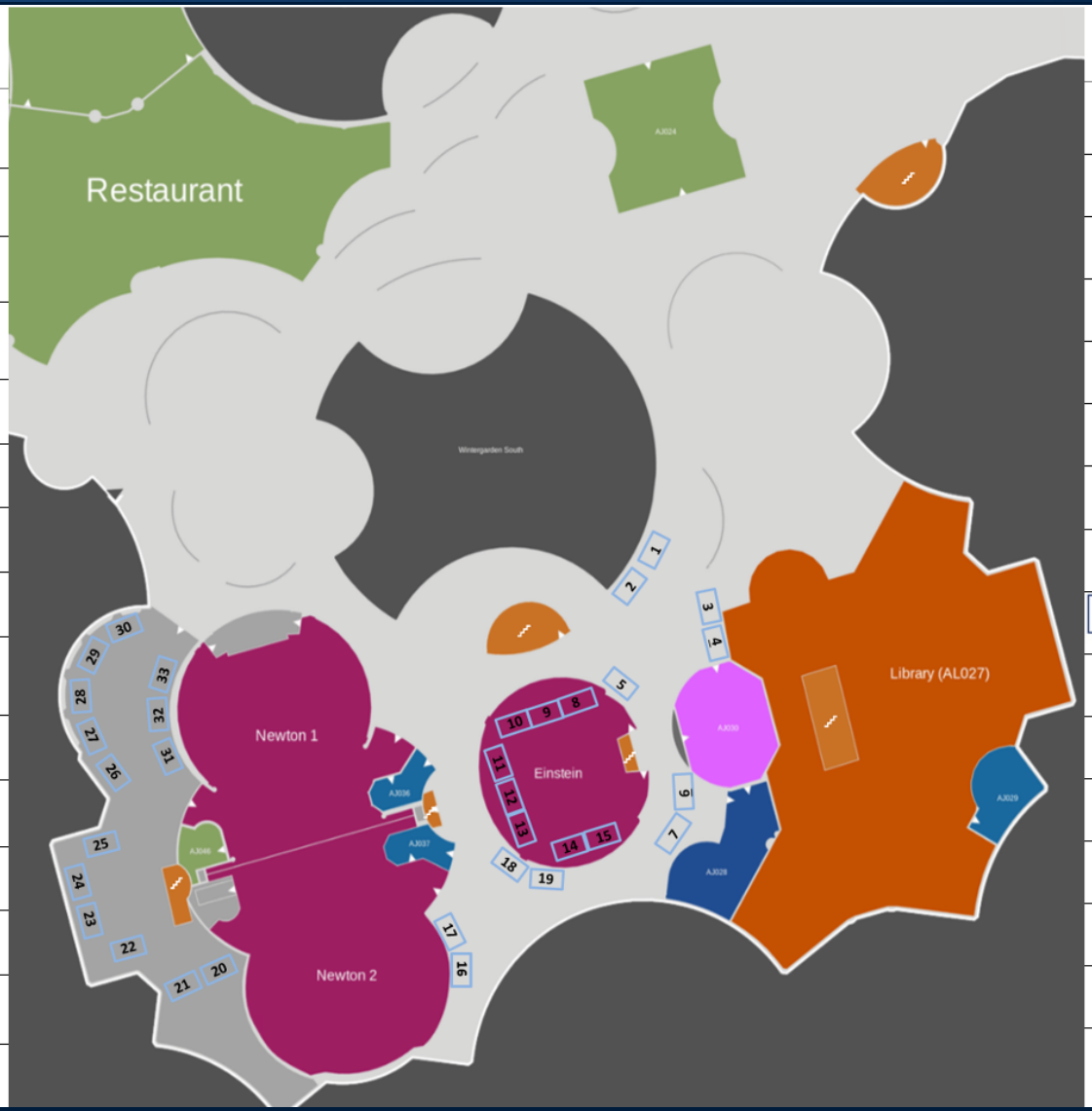
EEE Passives Seminar — changing passive-component landscape and trends, how the increasing demands of AI hardware are transforming EEE components.
Organised by Dr. Tomas Zednicek (EPCI).

ESA Site Tour — Materials & Electrical Components Laboratory, Materials Research, 3D printing and Erasmus High Bay exhibition.

Pre- registration was required for the Site Tour — 48 places, first-come first-served, advance sign-up was mandatory.

Exhibition Floor Plan

KYOCERA AVX	1
EATON Powering Business Worldwide	2
SRT MICROCÉRAMIQUE MLCC CAPACITORS	3
YAGEO KEMET	4
Littelfuse Expertise Applied | Answers Delivered	5
Positronic	6
Amphenol	7
FLUX	8
GORE	9
NICOMATIC	10
IST innovative Sensor Technology	11
ISOCOM LIMITED	12
SCHURTER ELECTRONIC COMPONENTS	13
Glenair	14
EXXELIA / CalRamic Technologies LLC	15
NDK	16



JAXA	17
PERFORMANCE INTERCONNECT	18
ALTER	19
smiths interconnect a molex company	20
molex	21
Radiall	22
PRESIDIO	23
exens SOLUTIONS	24
axon' cable & interconnect	25
Zoppas Industries Heating Element Technologies	26
Rosenberger	27
PAYTON PLANAR Innovation • Design • Performance	28
elemca TESTS ANALYSES EXPERTISE	29
Coilcraft	30
knowles	31
comtronic verbindungstechnik	32
VISHAY The DNA of tech.	33

Success Story : TDE Activity

An example of building up the Space passive component supply chain in Europe:

axon' cable & interconnect



Low Mass SpaceWire Cable

ESA-funded TDE activity



- LIGHTER
- SMALLER
- MORE FLEXIBLE

What was achieved?

A qualified, flight-proven European solution

150k€	ESCC	10+
TDE budget	Qualified	Years in orbit



In orbit:

EUCLID
SOLAR ORBITER
MTG
SMILE
MICROCARB
CERES
and more....

A Lighter, Smaller-Diameter Cable with a Smaller Bend Radius - Enabling More Compact Spacecraft Architectures

EEE Component Initiative

THE CHALLENGE

Approximately 60% of EEE Components on ESA missions, is sourced outside Europe



ESA response

1. **SUSTAIN** — Sustainable, unrestricted access to space-qualified EEE components
2. **COMPETE** — Price/performance competitive products for European and global markets
3. **CONNECT** — Mission needs → technology roadmaps → industrialisation → ESCC qualification

Subscribed	:	190M€ (including ESA OH)
Approved	:	110M€ (Activity Budget approved by IPC)
Supported	:	72M€ - contracted 58M€, 8M€ to be committed
Continuation	:	20-40M€
New	:	30-60M€

Several major product development activities contracted
According to market analysis, healthy ROI expected

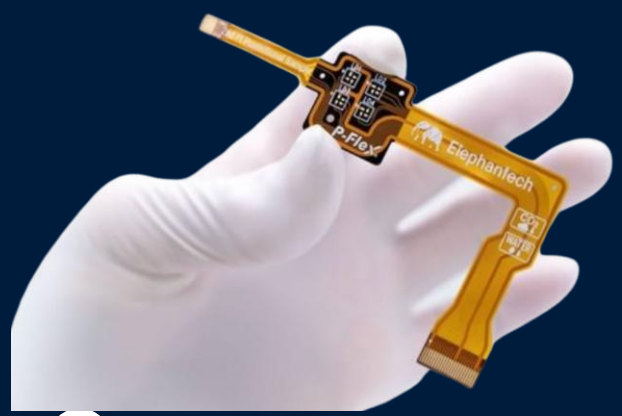
Advance Microelectronics, WBG RF/power, thermal management, radiation-test capability, photonics, passives, PCBs, Electronic Assembly

Advanced Manufacturing of Electronics (AME)

• What is AME

A disruptive technology, AME encompasses digital, additive, and hybrid manufacturing techniques for electronics and components – from printed sensors and structural electronics to advanced packaging and in-space fabrication.

AME replaces or complements traditional lithography-based processes with maskless, single-step, on-demand alternatives that are faster, more resilient, more secure, and more sustainable.





AME Strategic Pillars

Miniaturization

Smaller, lighter components for next-generation satellites (−90% with printed components and harness).

Lead Time / Agile Procurement

On-demand manufacturing and fast design iterations – 6-12 months → 24-72 hours (overall faster mission design cycles)

Digitalisation

Digital design-to-fabrication workflows.

Sustainability

Less material waste, shorter supply chains, lower environmental impact (90%+ material and chemical savings).

Security & IP

Local, in-house, sovereign supply

Networking & Community

SPCD connects component knowledge to mission decisions.

SPCD 2026 is the meeting point where engineers, procurement specialists, and agency and agency experts exchange the technical intelligence that drives reliable spacecraft spacecraft design.

Through structured sessions and informal encounters, passive-component expertise expertise flows directly into the decisions that shape European space missions. missions.
Every conversation, from exhibition booths to technical presentations, reinforces the reinforces the link between component-level reliability and mission-level success. success.

> Thursday 15th Oct. @17:00
>
> **Interactive Panel Discussion: "No EEE, No Sovereignty"**
>
> *How can Europe secure access to trusted EEE components and dual-use technologies to strengthen resilience, competitiveness, and strategic autonomy in space and defense?*

Networking

- Technical Oral sessions & TICs
- Networking breaks & B2B meetings
- Dedicated Poster session
- Private Manufacturer Roadmaps
- Exhibition Floor Exchanges
- Welcome Drink & Gala Dinner

80%+ of EEE parts are passive components

33 exhibitors + full symposium access

Interactions across all four days

6TH SPACE PASSIVE COMPONENTS DAYS

SPCD 2026: Thank you

13–16 October 2026

ESA/ESTEC — Noordwijk, The Netherlands



Dr. Ali Zadeh

Head of the Avionics and EEE Division (TEC-ED)
European Space Agency (ESA)