



ETAS



PROOF

Blacklist
Whitelist

```
(function() {var g,k=this;function l(a){return'stri  
function aa(){}  
function n(a){var b=typeof a;if("object"==b){l(a)  
else if("function"==b&&"undefined"==typeof a.c  
function p(a){var b=n(a);return'array'==b?'obje  
function q(a){var b=typeof a;return'object'==b&  
var r="closure_uid_"+(1E9"
```

```
unction n(a){var b=typeof  
Array)return'array';if(a.i  
rototype.toString.call(a);  
"[object Array]"==cl"num
```

ETAS Professional Security Services

Consulting

Professional security services

Portfolio overview

Enable & govern security

Security Governance

Acting (chief) product security officer, monitoring security research, regulation & standardization, reporting of cyber risks



Security Management Systems

Implementation of a CSMS, e.g., ISO/SAE 21434, UN R 155, ISO/IEC 62443, ISO 27001, process specifications, work product templates



Trainings and Competence Management

Basic and advanced trainings, trainings curricula, personal security certifications, coaching, awareness



Audits and Assessments

Gap analyses, maturity assessments, cybersecurity audits, product security assessments



Design & implement security

Product Security Managers

Coordination of security activities, creation/maintenance of security artefacts, preparation of technical decisions



TARAs and Security Engineering

Threat analyses and risk assessments, Security concepts, security specifications, integration support



Technical Security Experts

Post-quantum cryptography, V2X, AUTOSAR, OAuth 2.0, Kubernetes, Zero Trust, Common Criteria, API Security, Cloud Security



Verify & validate security

Penetration Tests

Vulnerability scans, network & infrastructure scans, black-/grey-/whitebox tests



Fuzz Tests

Protocol-based fuzz testing service to validate cyber-resilience and robustness of products



Red Blue Purple Teaming

Offensive security, AV evasion, emulate tactics, techniques and procedures (TTP) detection engineering



Security Test Experts

Code analyses, test guidelines, test specifications, test coaching, test management, Capture-the-Flag (CTF) workshops



Maintain & recover security

Vulnerability Management

Vulnerability scanning, vulnerability analysis, risk analysis and analysis of potential mitigation measures



Security tools

CycurANALYZE (ONEKEY)

Vulnerability management tool

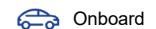


CycurFUZZ

Automotive fuzz testing tool

CycurRISK

Automotive TARA tool



Onboard



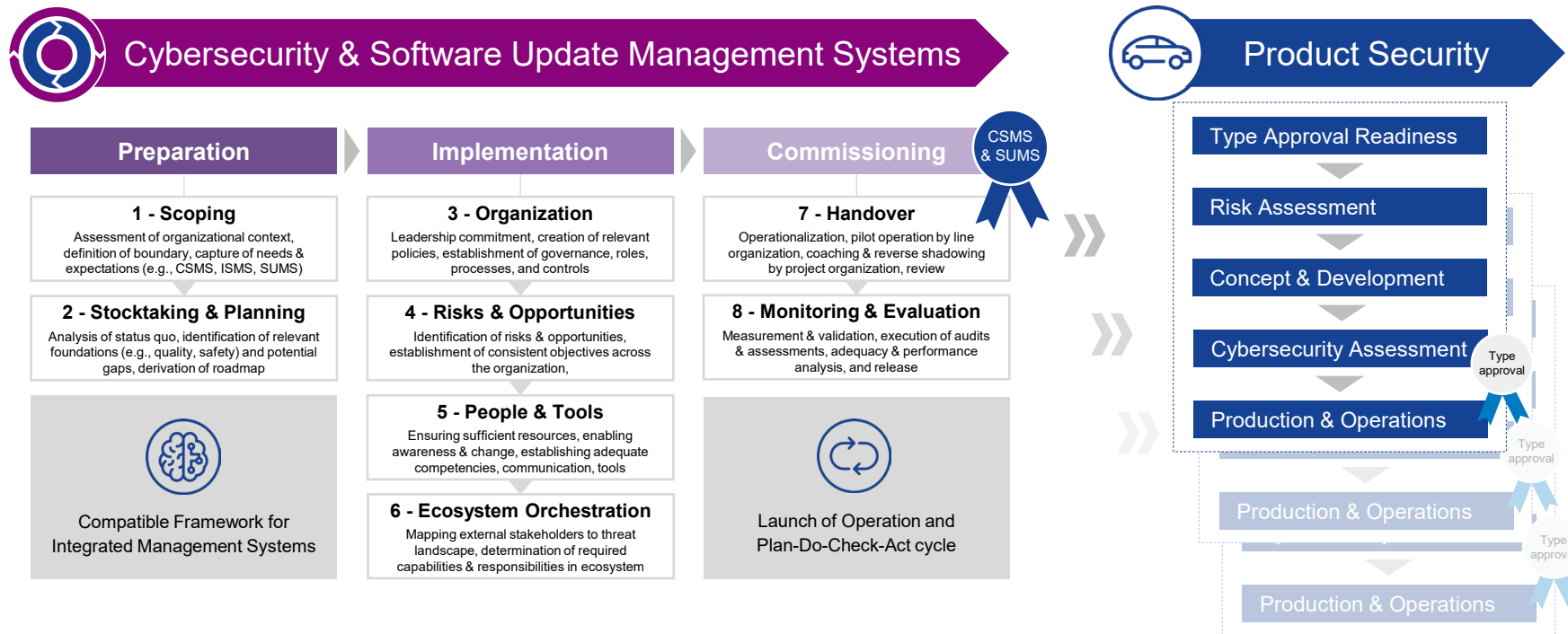
Offboard

Our proven eight-step implementation roadmap

Flashlight

ETAS

PROOF



Your
Benefits



Profit from global insights & benchmarks based on our decades of experience in auditing & automotive security engineering



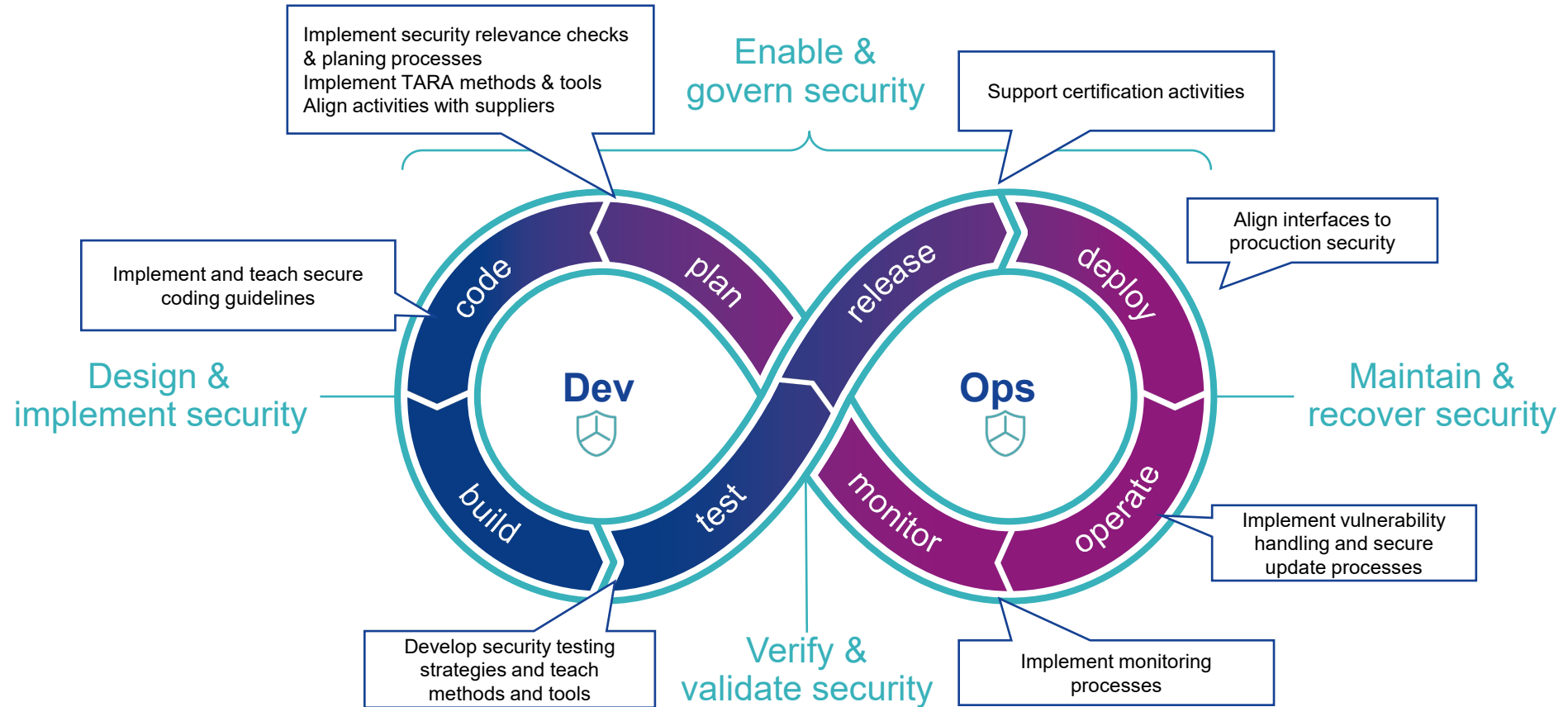
Our holistic, end-to-end expertise in automotive & enterprise security makes us ideal partners to roll out your CSMS & SUMS in time and with optimal efficiency



Our proven approach reliably guides you from the first readiness check to the commissioning and operation of your CSMS & SUMS

ETAS Security Consulting Service

Ensure governance and compliance along the whole product lifecycle



→ Consider all security relevant activities along the complete product lifecycle.

Professional security services

Enable & govern security

Security Governance



**Security Management
Systems**



**Trainings and
Competence
Management**



**Audits and
Assessments**



Security Governance

At a glance

Challenge



Stay up to date on product cybersecurity information and regulations

Our solution

Our service

- Strategic consulting of, e.g., ProSO, CISO or other governing roles: definition of KPIs, technical roadmap or state of the art
- "Standards Monitoring as a Service", firsthand information on standardization activities

Results / Deliverables

- Technical cybersecurity roadmap
- KPIs to measure cybermaturity and progress
- Coaching and training of central security roles
- Reporting on trends and upcoming regulations

Benefits



First-hand information on automotive cybersecurity



Well aligned technical and organizational security roadmap



Strengthened central cybersecurity roles

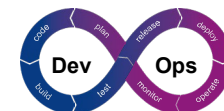


Ensure regulatory compliance and set strategic goals for cyber maturity



Global teams monitor regional trends and share information globally

ETAS is part of the global automotive cybersecurity community. Benefit from our experience, collaboration and active information sharing!



Supported
ProSOs and
CISOs of
global
OEMs and
TIERs



Active
memberships in
dozens of
committees
and **working**
groups
(e.g. ISO 21434
2nd edition)



Cybersecurity Audits & Assessments

At a glance

Challenge



Evaluate process and product cyber maturity quantitatively yet efficiently

Our solution

Our service

- CSMS audits & assessments
- Document reviews and live interviews
- Questionnaire based on PROOF maturity model to cover all domains and complete product lifecycle

Results / Deliverables

- Roadmap workshop
- Maturity audit / assessment report
- Structured measures and recommendations
- Attestation of cyber maturity for external use

Benefits



Fast and focused audit process



Standardized process and tool-based solution



Detailed report incl. management summary and improvement measures

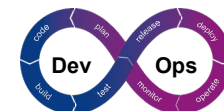
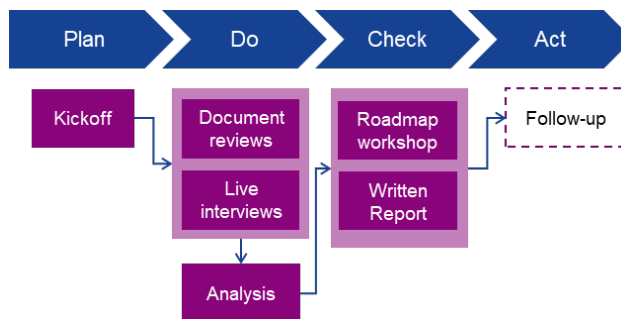


Only 16 hours until your cyber maturity report



Based on PROOF maturity model covering major regulations / standards

Benefit from our highly standardized and tool-supported cybersecurity audit process to get a fast understanding of your organizations cyber maturity!



Gap Analysis & Audits performed in **each region**

Performed audits for **product, information and production security**

Tool based approach



ESCRYPT cybersecurity audits & maturity assessments

Our proven, standards-based* approach

Kickoff phase & opening meeting

- Confirm objectives, scope, method, roles, and team
- Confirm communication channels, schedule, plan, arrangements
- Request and confirm access to relevant information (e.g., PBC or “provided by client” list)
- Determine any areas of interest or concern in relation to audit/assessment

Document reviews & live interviews

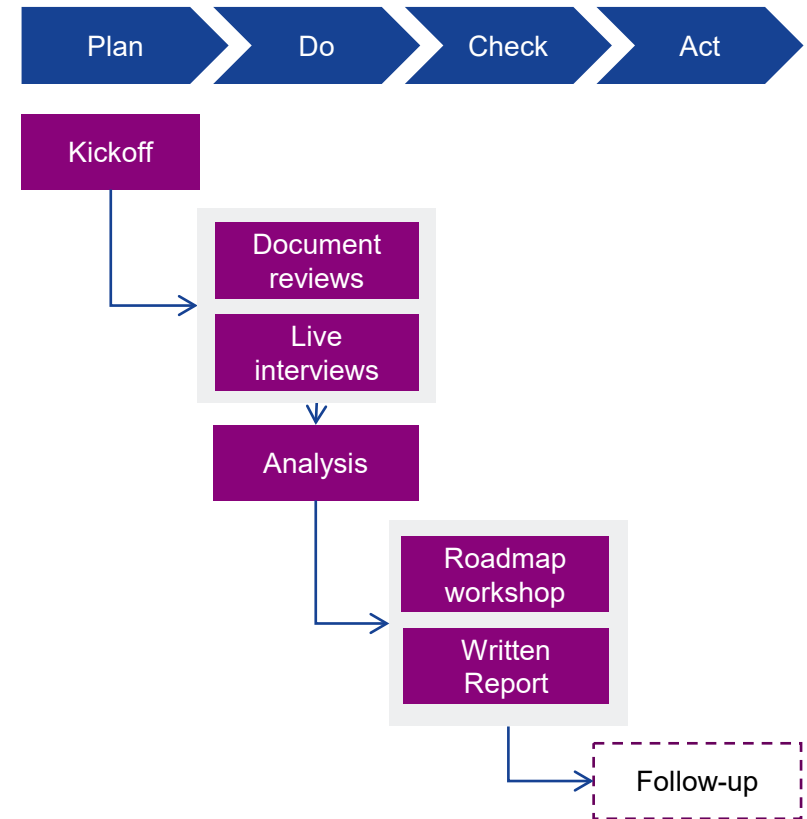
- Collect objective evidence and create standardized record of existing cybersecurity activities
- Systematic review of documents relating to process within agreed scope
- Interview identified stakeholders

Analysis

- Analyze the standardized record of evidence and ensure consistency
- Confirm coverage of agreed scope and potentially ask clarification questions
- Rate achievement, identify gaps, and generate findings
- Derive conclusions and maturity level (if applicable)

Roadmap workshop & written report

- Organize a workshop with the sponsor and affected parties
- Explain results & opportunities for improvement and risk mitigation
- Translate recommendations into a prioritized roadmap
- Finalize and distribute written report



* based on ISO 19011 and the ISO 33000 series.

Security Management Systems

At a glance

Challenge



Establish integrated CSMS, ISMS & SUMS with high maturity focusing on efficiency and continuous improvement

Our solution

Our service

- CSMS implementation and improvement
- Compliance to UN R155, ISO 21434 and other international norms and standards
- Template creation based on well defined template repository for fast implementation
- Integration of CSMS into existing process landscape

Results / Deliverables

- Gap analysis to identify best practices and gaps
- norm compliant CSMS
- CSMS templates, tools and methods
- Training & coaching of staff during hand-over

Benefits



Reach compliance to international automotive cybersecurity norms / standards (e.g. type approval)



High re-use of existing processes and best practices



Coverage of all domains and disciplines throughout the entire product lifecycle



Continuously improve beyond compliance towards a mature organization

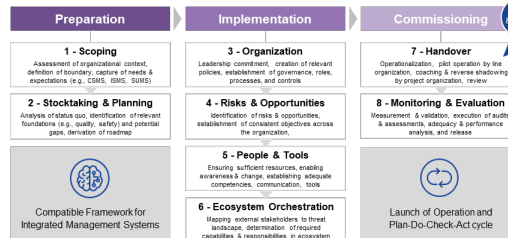


Easily include new requirements or regulations into your CSMS with PROOF

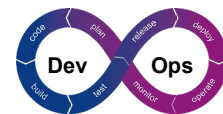
Benefit from our broad, global experience on establishing and improving cybersecurity management systems following our standardized approach!



Cybersecurity & Software Update Management Systems



Product Security



100% successful
CSMS implementation

Supported
global OEMs & TIERS

“Working with
ESCRYPT is
like **FLYING**”
– European CV OEM



Competence Management

At a glance

Challenge



Define, manage and ensure the right cybersecurity competence for your DevOps teams

Our solution

Our service

- Analyze competence needs of security stakeholders based on customer's roles
- Define curriculums for security stakeholders
- Identify need for new trainings and awareness campaigns

Results / Deliverables

- Definitions and mapping of stakeholders' roles, competencies, and training and awareness campaigns
- Overview of available vs. needed trainings and awareness campaigns

Benefits



Understand which role requires which competencies



See mapping of roles to competence measures and training curriculums



Know the gap of training and awareness campaigns



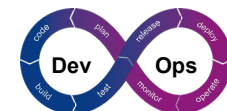
Systematically improve your team's cybersecurity competences



Receive certificates for selected trainings

Start the journey of systematically improving your team's cybersecurity competence to enable them to develop and maintain secure products!

		competencies				
		ISO 21434	Secure Coding	TARA	Security Testing	...
roles	Engineer		x	x		
	Architect		x		x	
	Manager	x		x		
	...					
		ISO training	SPD training	TARA coaching	Testing workshop	...
		competence measures				



Clear definition of roles



Mapping of competences to roles



Allocating the right measures



Efficient and transparent competence roadmap



Trainings

At a glance

Challenge



Ensure teams receive high quality trainings with up-to-date training material from experienced automotive security experts

Our solution

Our service

- More than a dozen trainings and coaching programs on a wide range of security topics
- Qualified, international trainers with backgrounds in security engineering
- TÜV Rheinland certification as “Cybersecurity Automotive Professional”

Results / Deliverables

- Training or coaching material
- Training or coaching execution by qualified trainer or coach
- Documentation of participants
- Certification of training completion for participants

Benefits



Content tailored to participants' needs



Quality-controlled trainers and material



Addressing all stakeholders: management, development, testing, etc.

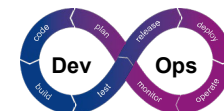


Covering both onboard and offboard topics



Ranging levels of training: basic, intermediate, and advanced

Enable your team with cybersecurity trainings, workshops and coachings!



Performing **25+** trainings annually



13 trainings, workshops and coachings



Onboard and Enterprise Security topics



4 out of top 5 OEMs chose ESCRYPT trainings



ESCRYPT Web-Based Trainings

At a glance

Challenge



Ensure teams receive high quality trainings with up-to-date training material from experienced automotive security experts

Our solution

Our service

- More than a dozen trainings and coaching programs on a wide range of security topics
- Up-to date, high quality content of security trainings
- High diversity in security topics, from processes, regulations, to cryptography and automotive specific security
- Competence-checks with included quizzes and tests

Results / Deliverables

- WBTs in various formats (SCORM, HTML, PPT,...)
- Standardized WBTs, ready-available
- Customized WBT development
- Animation, voice-over, AI-supported
- Certification of participation for training record

Benefits



Content tailored to participants' needs



Quality-controlled material in various formats



Addressing all stakeholders: management, development, testing, etc.

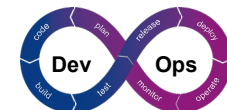


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Ranging levels of training: basic, intermediate, and advanced

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Onboard and Enterprise Security topics

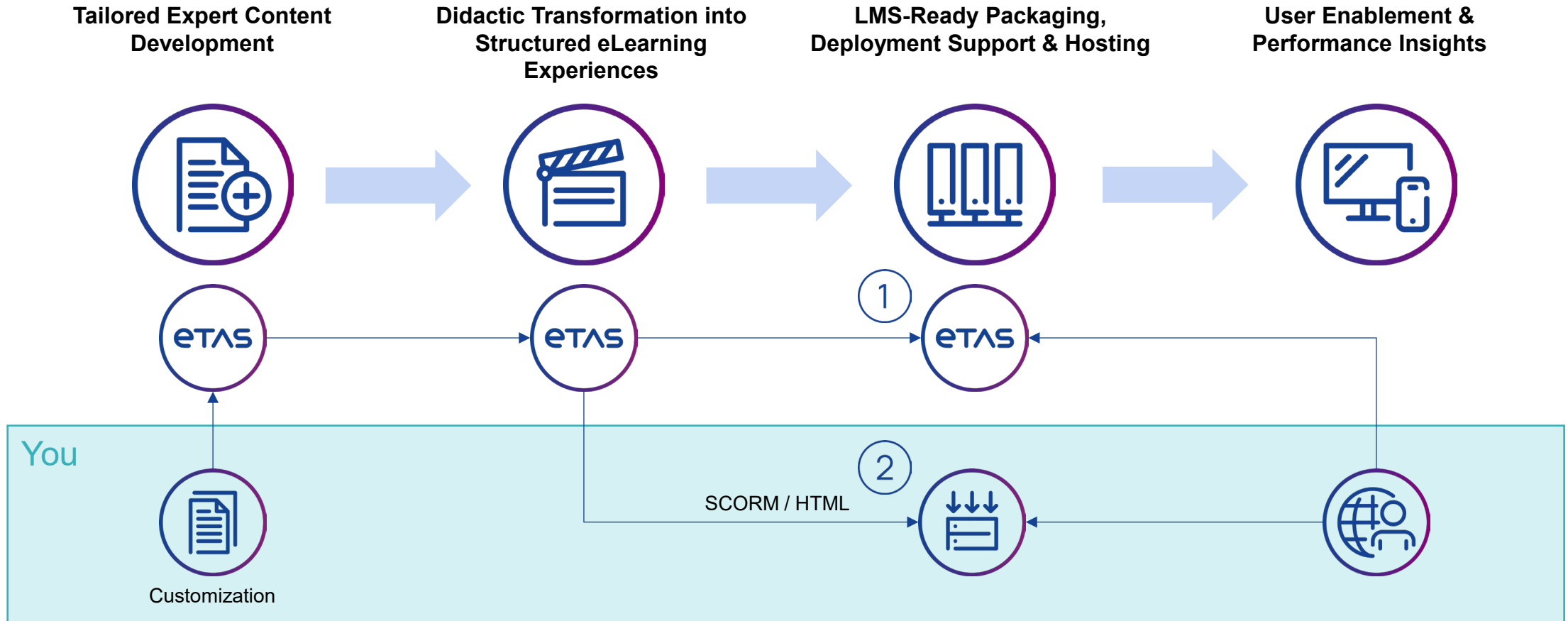


4 out of top 5 OEMs chose ESCRYPT trainings



Creation and hosting of WBT

Integration of WBT



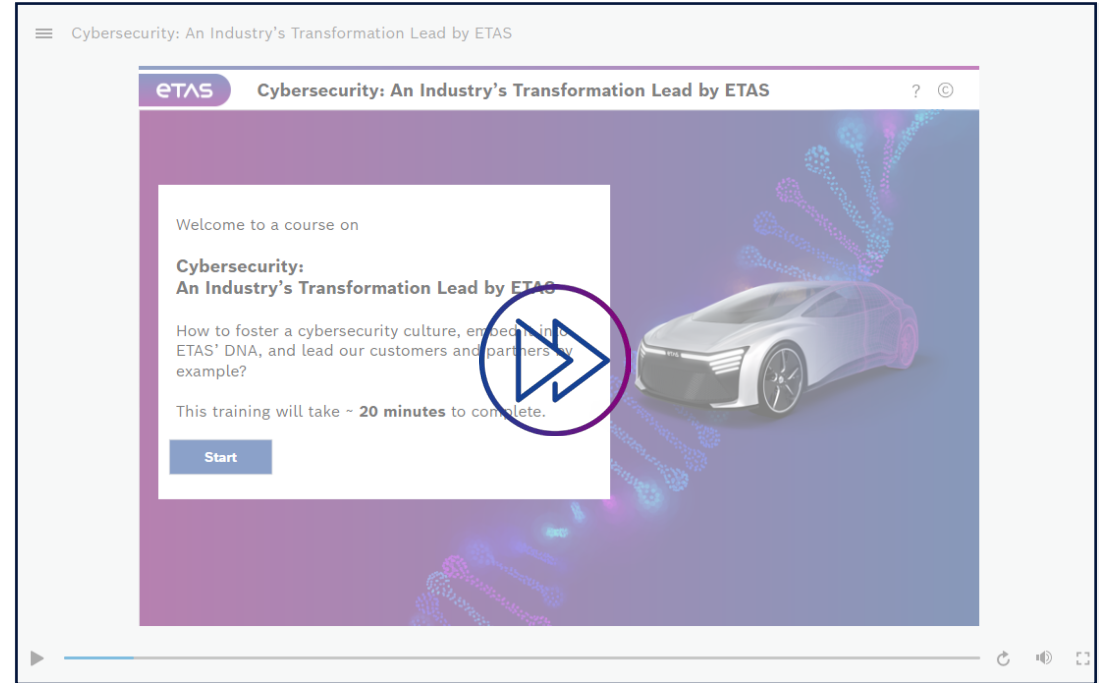
ESCRYPT security WBTs

Customer Demo

ESCRYPT AI-based awareness presentation



ESCRYPT awareness WBT



Thank you