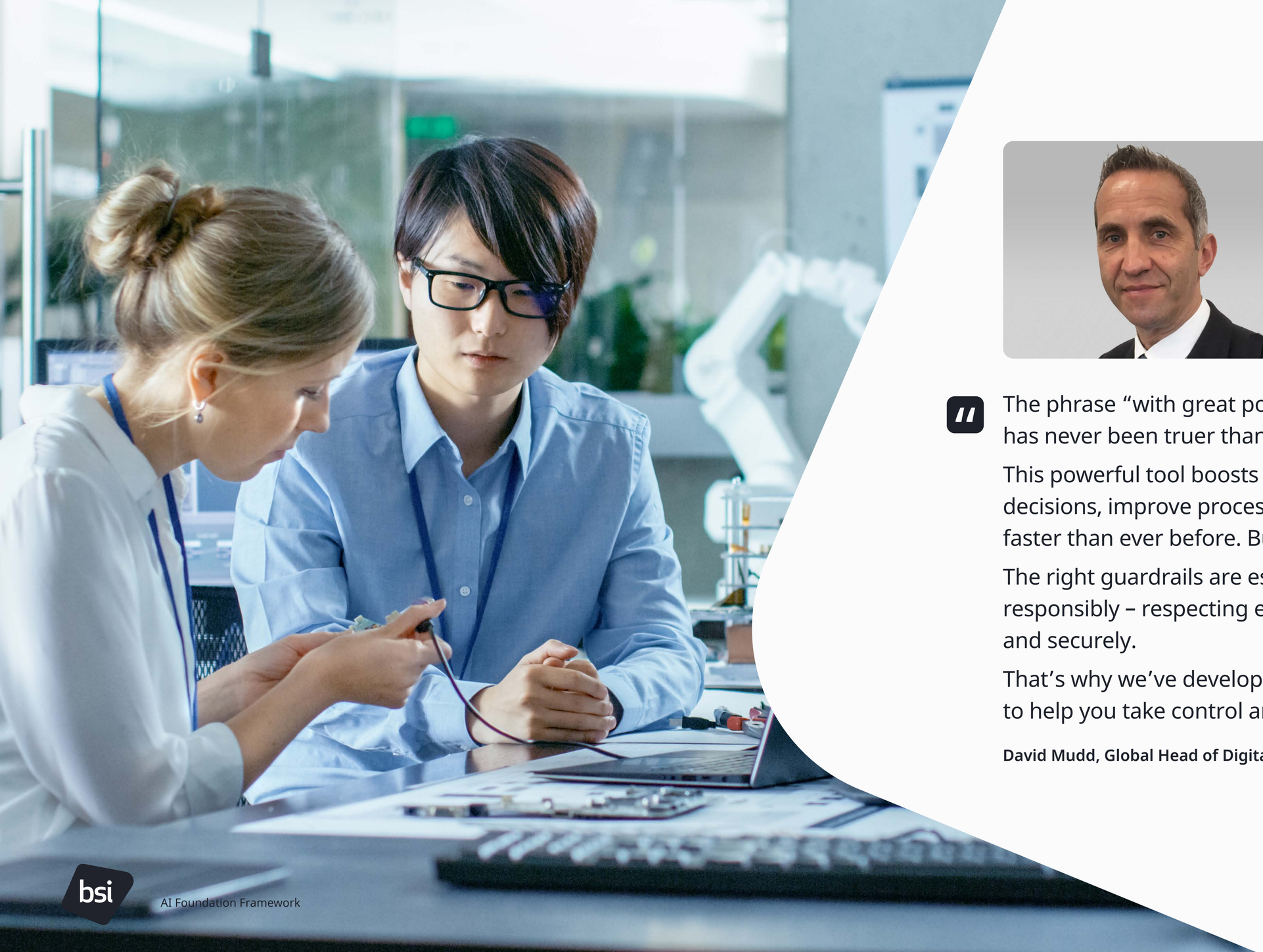
Your partner
in progress

AI Foundation Framework

Your guide to building trusted AI adoption



"The phrase "with great power comes great responsibility" has never been truer than in the field of AI.

This powerful tool boosts your ability to make better decisions, improve processes, and upgrade your products faster than ever before. But, as you know, it also has its risks.

The right guardrails are essential to ensure you use AI responsibly – respecting ethics, fairness, and privacy – and securely.

That's why we've developed the AI Foundation Framework; to help you take control and build trust in your AI adoption."

David Mudd, Global Head of Digital Trust Assurance, BSI

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Trust is the currency of AI

AI is transforming the way organizations innovate and deliver value.

What once felt novel and experimental is quickly becoming part of everyday business, and the decisions made today will shape long-term impact - for good or bad.

You need to exercise control over your adoption of AI as stakeholder expectations, regulations, and standards change.
You need a practical way to provide trusted assurance.

The AI Foundation Framework provides this. It offers a clear way to take control of AI adoption, regardless of your starting point. By breaking complex challenges into focused modules, you start where it matters most to build capability over time.

Using the framework helps you assess AI risks, strengthen governance, and demonstrate ethical practices that uphold privacy and security. It includes structured learning, self-assessment tools, and independent reviews to help you measure progress and provide evidence of responsible AI adoption.

Follow this guide to discover the modules that work best for you. >

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What is the AI Foundation Framework?

The AI Foundation Framework helps you take control and accountability for your AI adoption. It’s a modular verification scheme, based on globally recognized standards, that adapts to your priorities and level of AI maturity.

You’ll build capabilities, confidence, and trust, one step at a time.

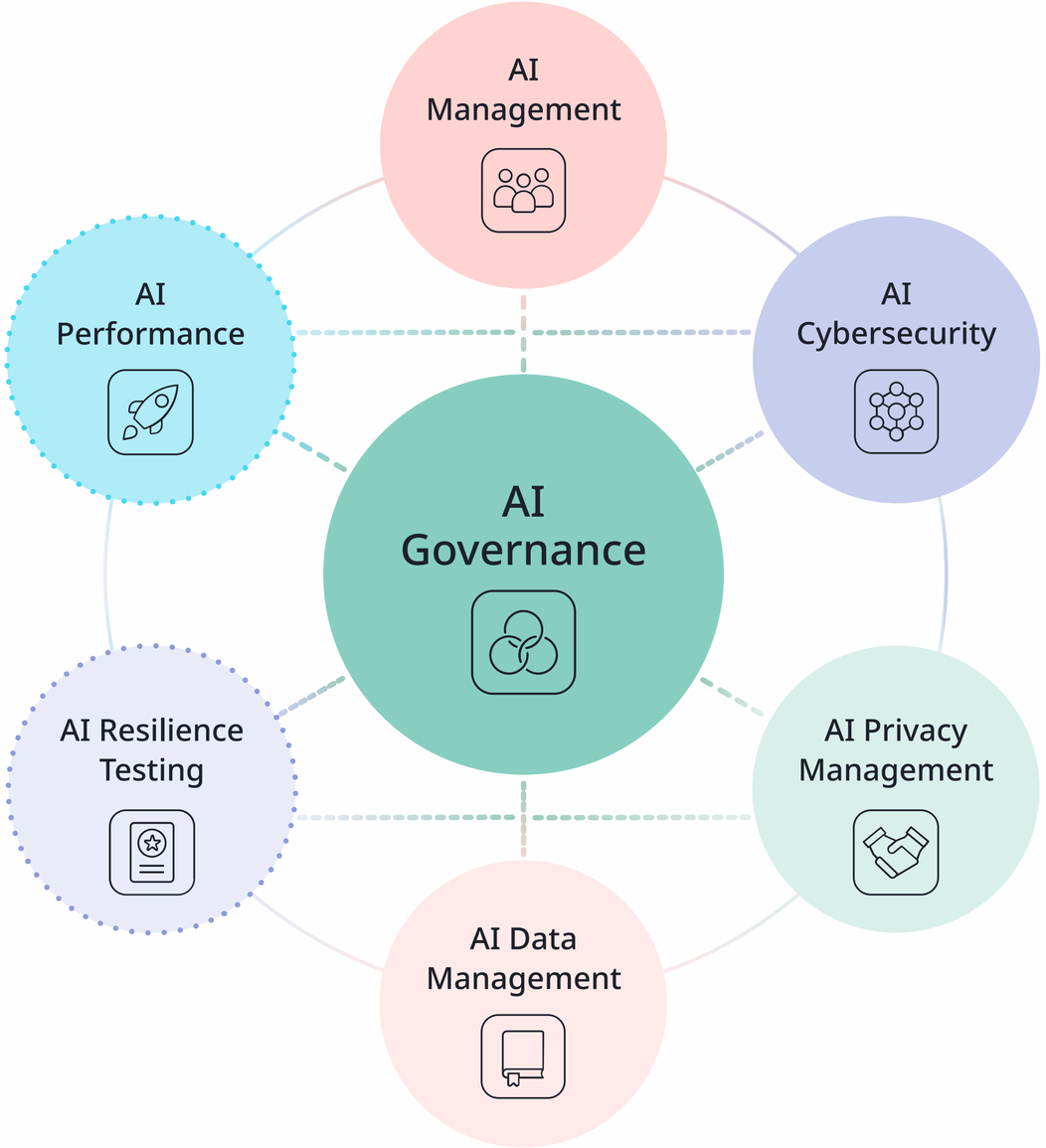
Benefits of the modular framework

- **Independence.** Modules are based on globally recognized standards.
- **Flexibility.** You choose the modules that best suit your goals.
- **Guidance.** We’ll guide you through each module, step by step.
- **Progression.** You set the target performance levels you want to achieve.
- **Proof.** You’ll earn a BSI Mark of Trust to prove your progress to stakeholders.

Modules within the framework

- **Five modules to build trust in your AI management capabilities.** These modules guide you through a process of training, self-assessment, and independent verification that confirms the maturity of your management systems.
- **Two modules to test your AI performance and resilience.** Based on technical standards, these modules test your AI performance in practice. You’ll know what you’re doing well and what to improve on.

Click on each module to see how it works



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AI Governance

Gain the confidence that you're in control of AI with good governance and risk management.

This module focuses on: acceptable AI use, accountability and decision making, risk evaluation, performance monitoring, and more.

1 Training

- 3-4 hours on-demand
- Overview of the standards, domains, and controls
- Introduction to your self-assessment tool
- Maturity levels & scoring

2 Self-assessment

- Started during training
- Complete at your own pace
- Repeat as often as you want

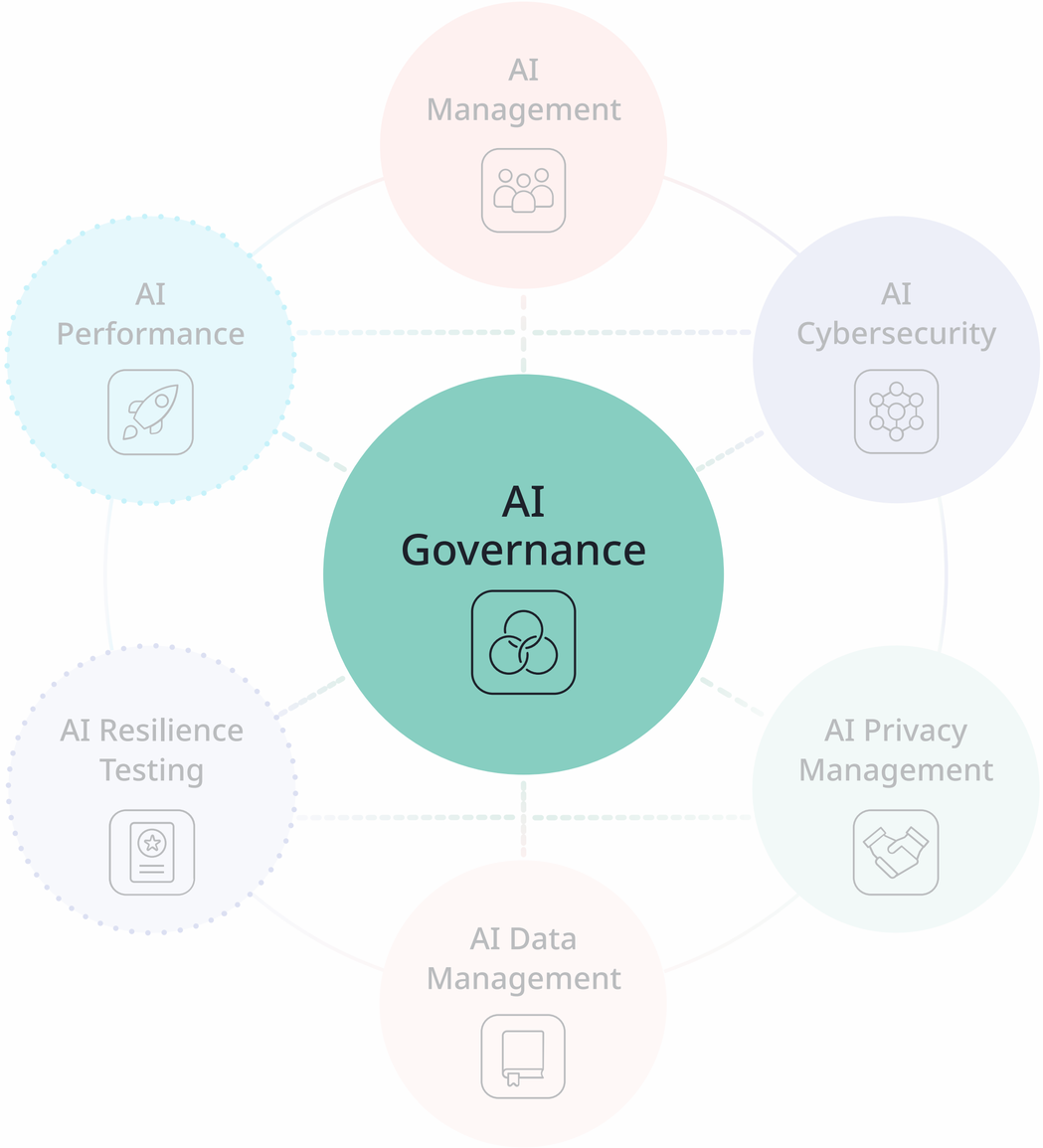
3 Verification

- 3 reference standards:
  - › ISO 38507 (IT Governance)
  - › ISO 23894 (AI Risk Management)
  - › NIST AI Risk Management Framework
- 3 AI governance domains
- 8 controls

4 Results

- Verification report
- Maturity assessment result
- BSI Mark of Trust

Click on each module to see how it works



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AI Management

Find out how effective your AI management is in practice, and what to improve on.

This module focuses on: governance & oversight, lifecycle controls, MLOps controls, and quality, safety & robustness, and more.

1 Training

- 3-4 hours on-demand
- Overview of the standards, domains, and controls
- Introduction to your self-assessment tool
- Maturity levels & scoring

2 Self-assessment

- Started during training, complete at your own pace

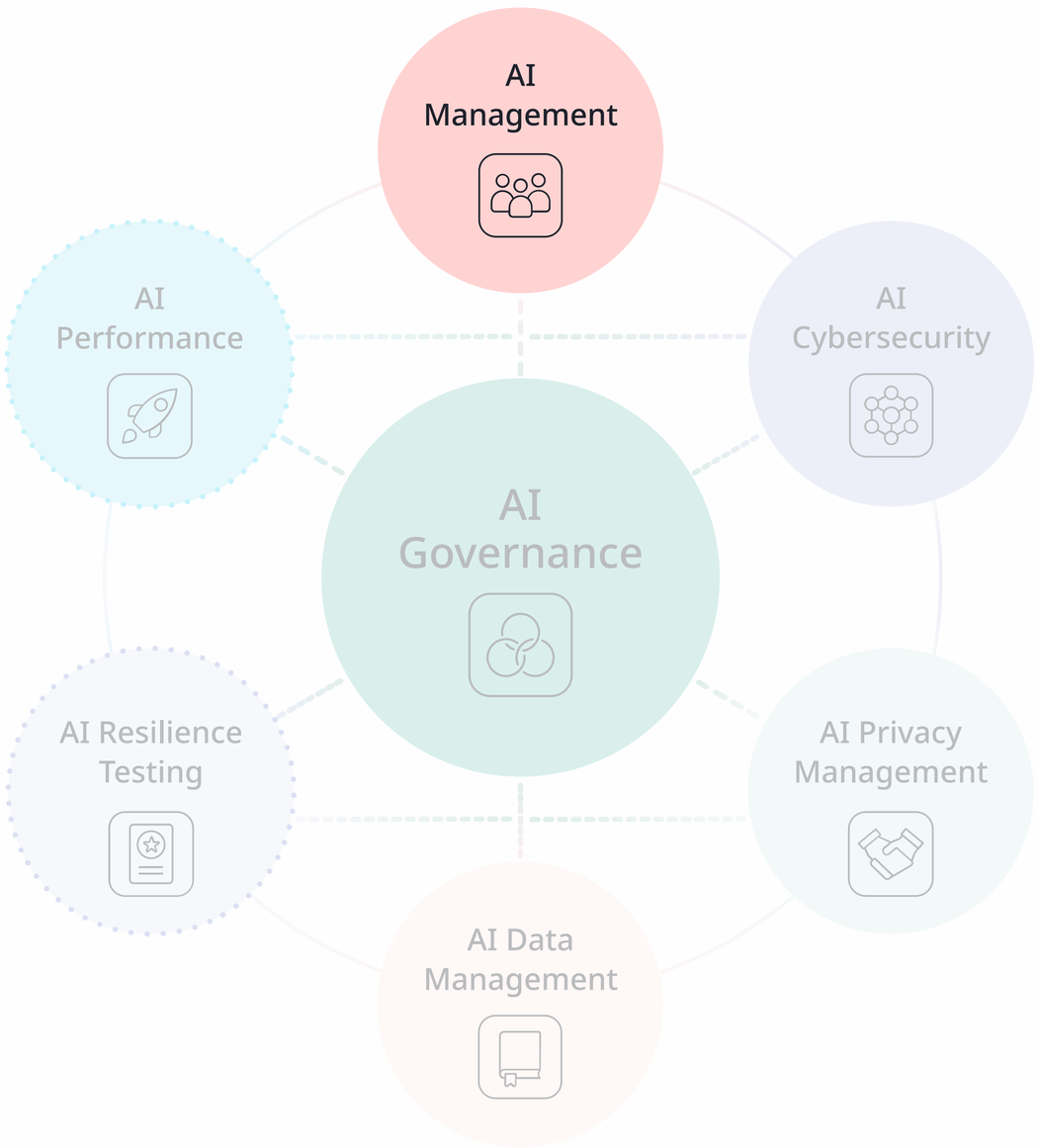
3 Verification

- 2 reference standards:
  - ISO/IEC 42001 (AI Management)
  - NIST Risk Management Framework
- 7 AI management domains
- 33 controls

4 Results

- Verification report
- Maturity assessment result
- BSI Mark of Trust

Click on each module to see how it works



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AI Cybersecurity Management

Identify and mitigate AI-related cybersecurity risks to be sure you're protected.

This module focuses on: data security & protection, data poisoning, monitoring, detection & forensics, incident response, and more.

1 Training

- 3-4 hours on-demand
- Overview of the standards, domains, and controls
- Introduction to your self-assessment tool
- Maturity levels & scoring

2 Self-assessment

- Started during training, complete at your own pace

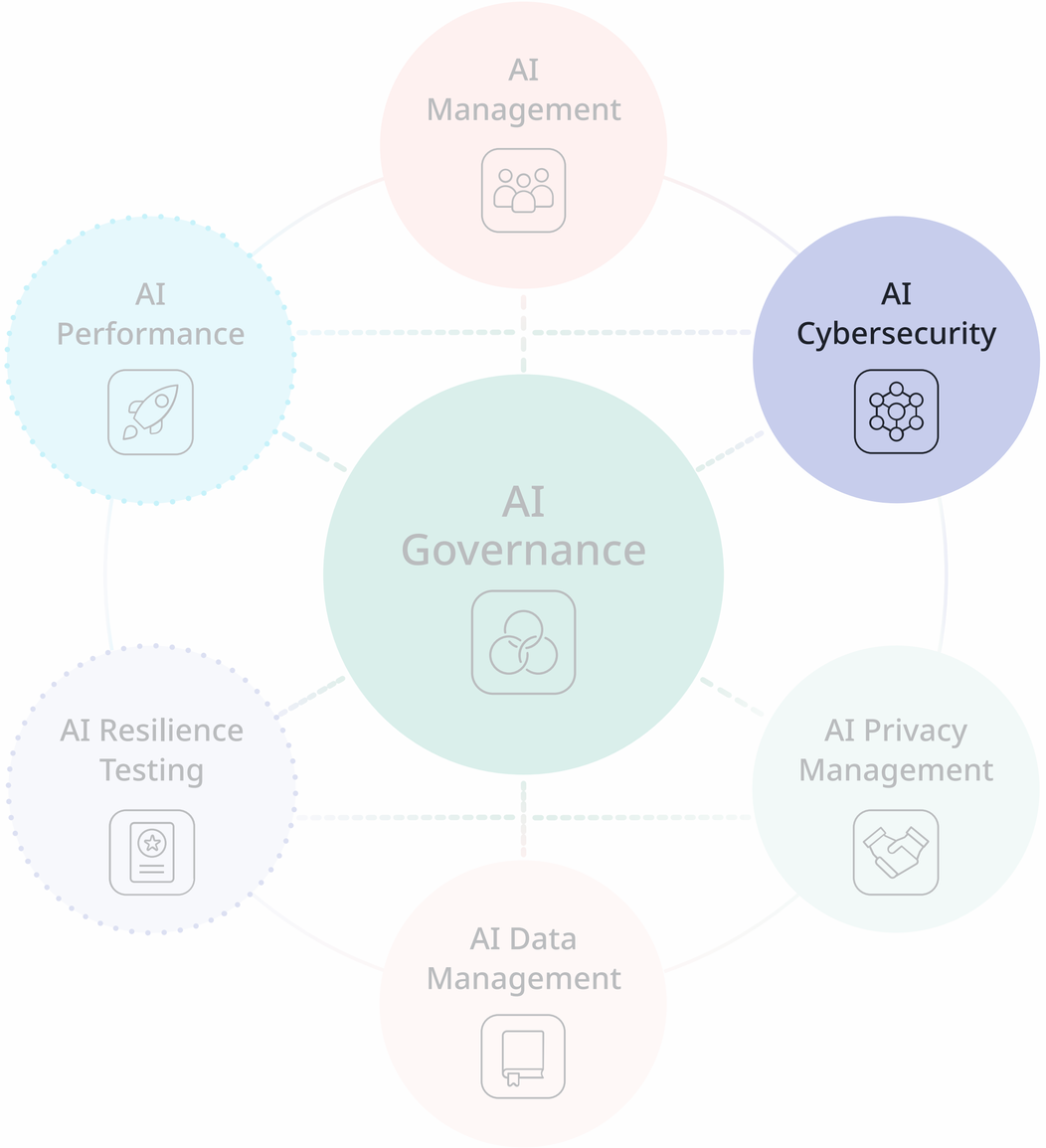
3 Verification

- 3 reference standards:
  - › ISO/IEC 27001 (Information Security)
  - › ISO/IEC 42001 (AI Management)
  - › NIST Cybersecurity Framework
- 16 cybersecurity domains
- >90 controls

4 Results

- Verification report
- Maturity assessment result
- BSI Mark of Trust

Click on each module to see how it works



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AI Privacy Management

Address privacy concerns by protecting personally identifiable information.

This module focuses on: identification & leakage, lifecycle controls, lawfulness, privacy, transparency, monitoring, and more.

1 Training

- 3-4 hours on-demand
- Overview of the standards, domains, and controls
- Introduction to your self-assessment tool
- Maturity levels & scoring

2 Self-assessment

- Started during training, complete at your own pace

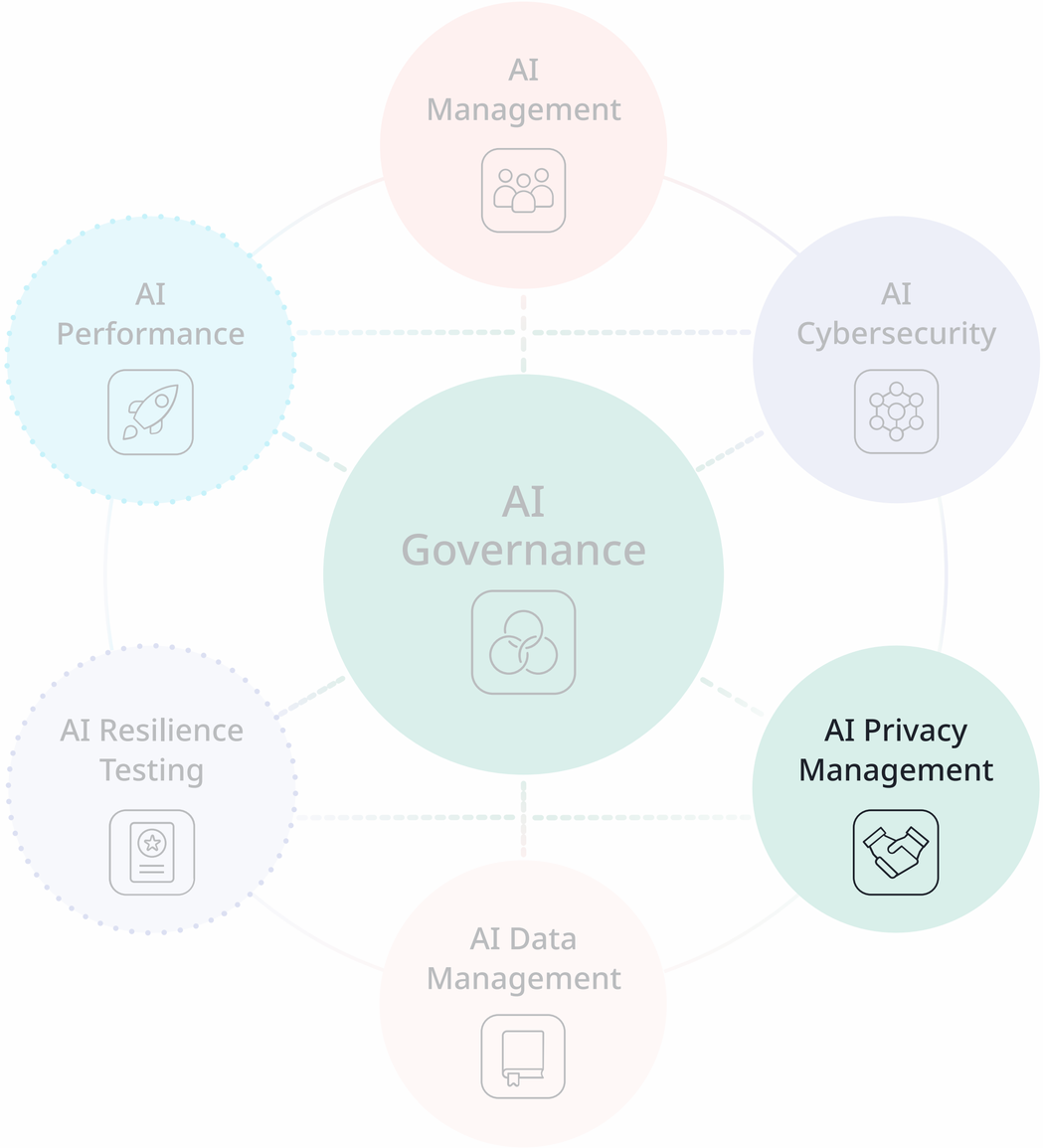
3 Verification

- 2 reference standards:
  - ISO/IEC 27701 (Privacy Management)
  - NIST Privacy Framework
- 23 privacy domains
- 38 controls

4 Results

- Verification report
- Maturity assessment result
- BSI Mark of Trust

Click on each module to see how it works



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AI Data Management

Uphold AI data quality to deliver repeatable results you can rely on.

This module focuses on: data lifecycle, data quality management, data quality for analytics and machine learning, and more.

1 Training

- 3-4 hours on-demand
- Overview of the standards, domains, and controls
- Introduction to your self-assessment tool
- Maturity levels & scoring

2 Self-assessment

- Started during training, complete at your own pace

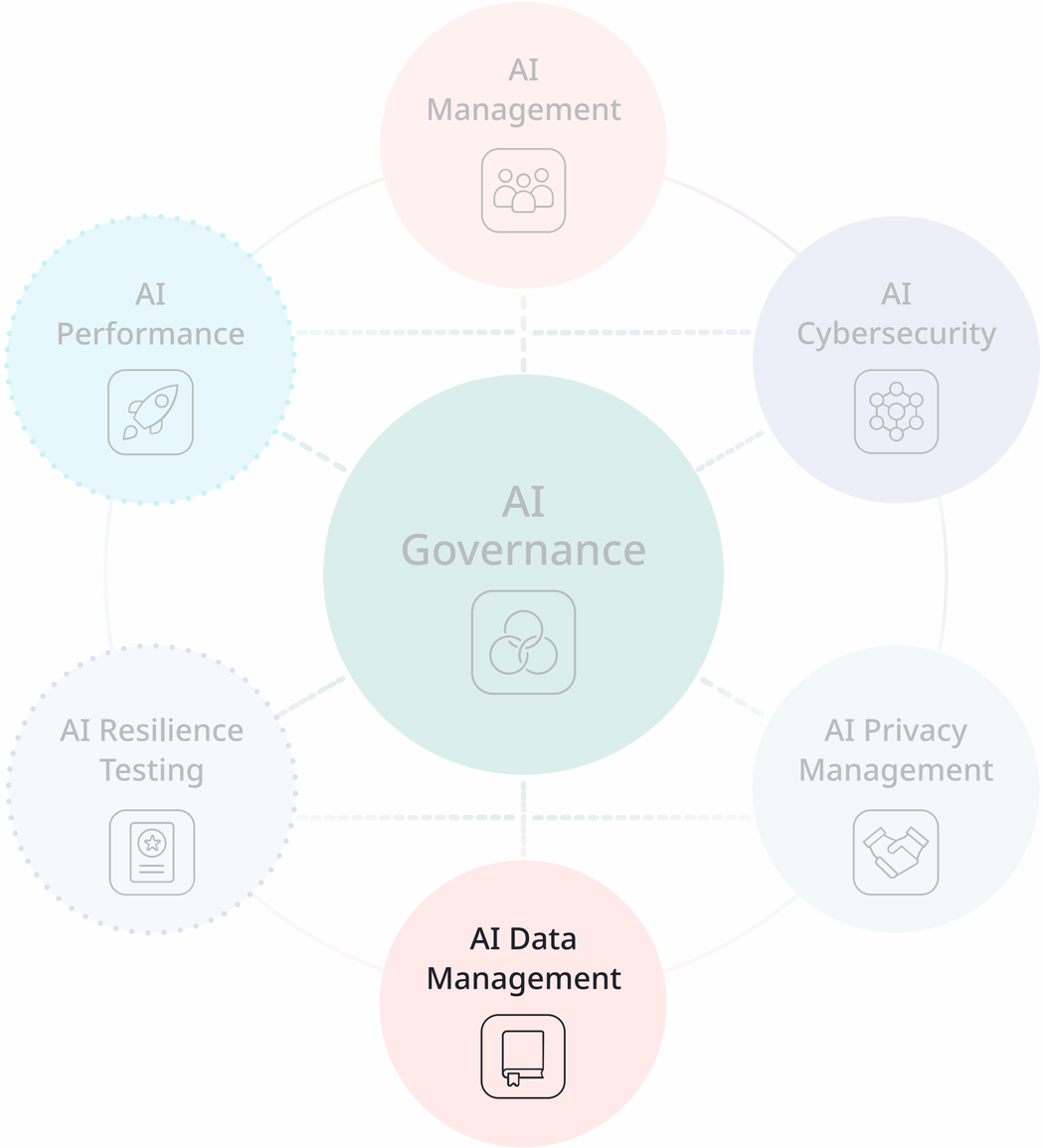
3 Verification

- 2 reference standards:
  - ISO 38505 (Data Governance)
  - ISO 5259-3 (Data Quality Management for Machine Learning)
- 8 AI management domains
- 81 controls

4 Results

- Verification report
- Maturity assessment result
- BSI Mark of Trust

Click on each module to see how it works



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AI Resilience Testing

Put your AI systems to the test, identify weaknesses, and become more resilient.

This module focuses on: resilience testing, red teaming, penetration testing, and vulnerability & attack simulation.

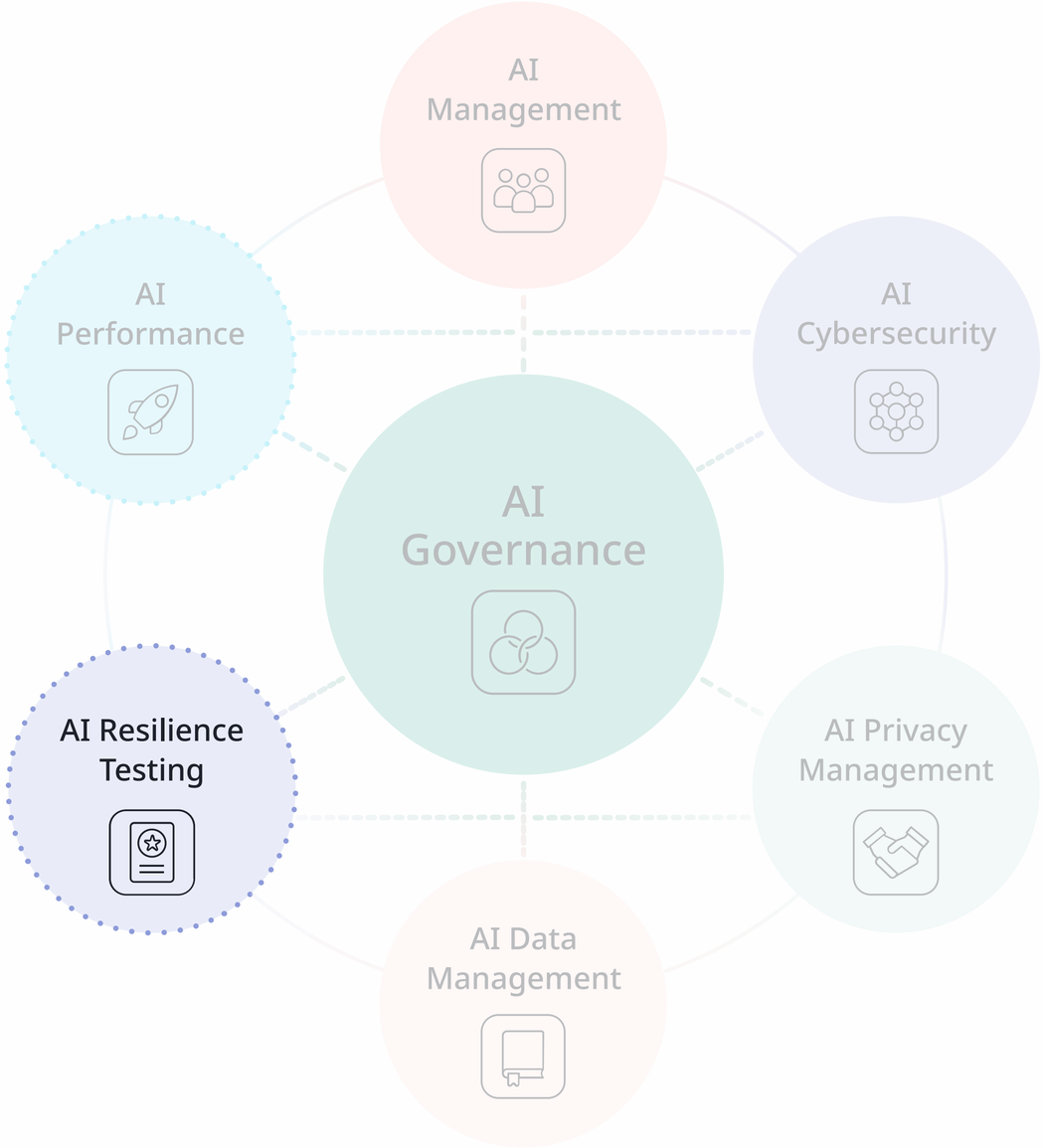
1 Training
- Introduction to AI Resilience
- How to prepare for resilience testing

2 Self-assessment
- Not applicable for this testing module

3 Testing
- Red teaming
- Penetration testing
- Vulnerability & attack simulation

4 Results
- Resilience test report
- Confirmation letter
- BSI Mark of Trust

Click on each module to see how it works



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AI Performance Testing

Build trusted AI performance, bias, and robustness claims.

This module focuses on: AI model testing, data set performance, regression, classification, detection, segmentation, identification, and verification.

1 Training

- Training isn't included in this module.
- Related training is available for:
  - ISO/IEC TS 4213 (Assessment of machine learning)
  - ISO/IEC TR 24027 (Bias in AI systems & AI aided decision-making)
  - ISO/IEC TR 24029-1 (Robustness of Neural Networks)

2 Self-assessment

- Not applicable for this module
- Submit your performance metrics for verification

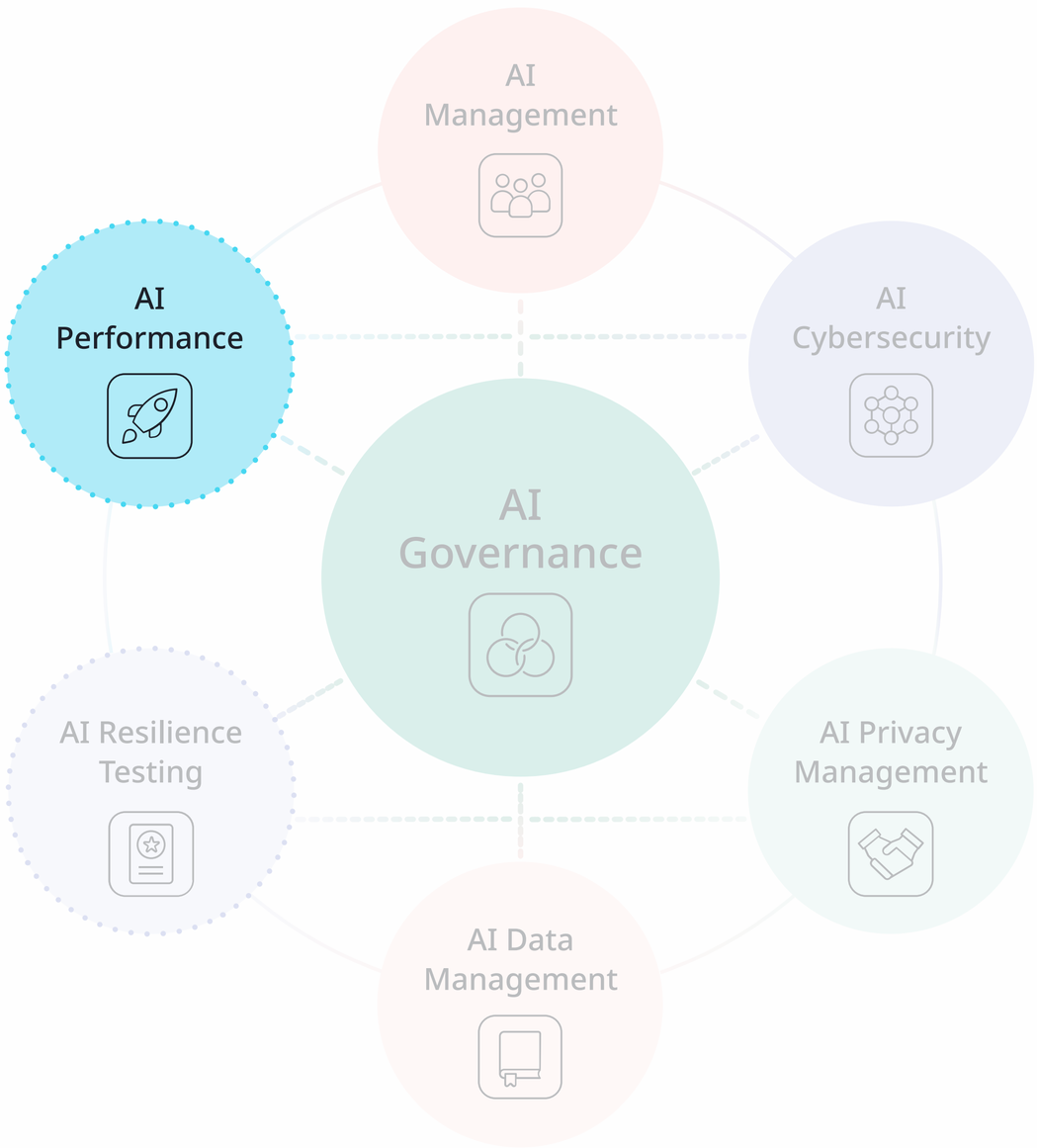
3 Testing

- Test criteria from eight reference standards
- Regression
- Binary / multiclass / multilabel classification
- Object detection
- Semantic segmentation
- Biometric identification and verification

4 Results

- Resilience test report
- Confirmation letter
- BSI Mark of Trust

Click on each module to see how it works



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Your trusted AI standards expert

We're uniquely positioned to help you build trust in your AI adoption.

Standards authority

We wrote the standards that became the international standards for managing AI, information security, privacy, and more. We've been at the forefront of standards for 125 years.

Expert training

Thousands of professionals have gained valuable skills with our Training Academy, which offers over 20 AI courses and qualifications within a wide digital trust portfolio.

Independent accreditation

We're the first certification body to achieve UKAS accreditation for AI management, to give you independent assurance or our AI capabilities and impartiality.

Global capabilities, locally delivered

You can rely on our worldwide network of AI tutors and auditors wherever you are.

The BSI Mark of Trust

This unique symbol of trust is globally recognized proof that your AI capabilities have been independently verified by BSI.

Get in touch >

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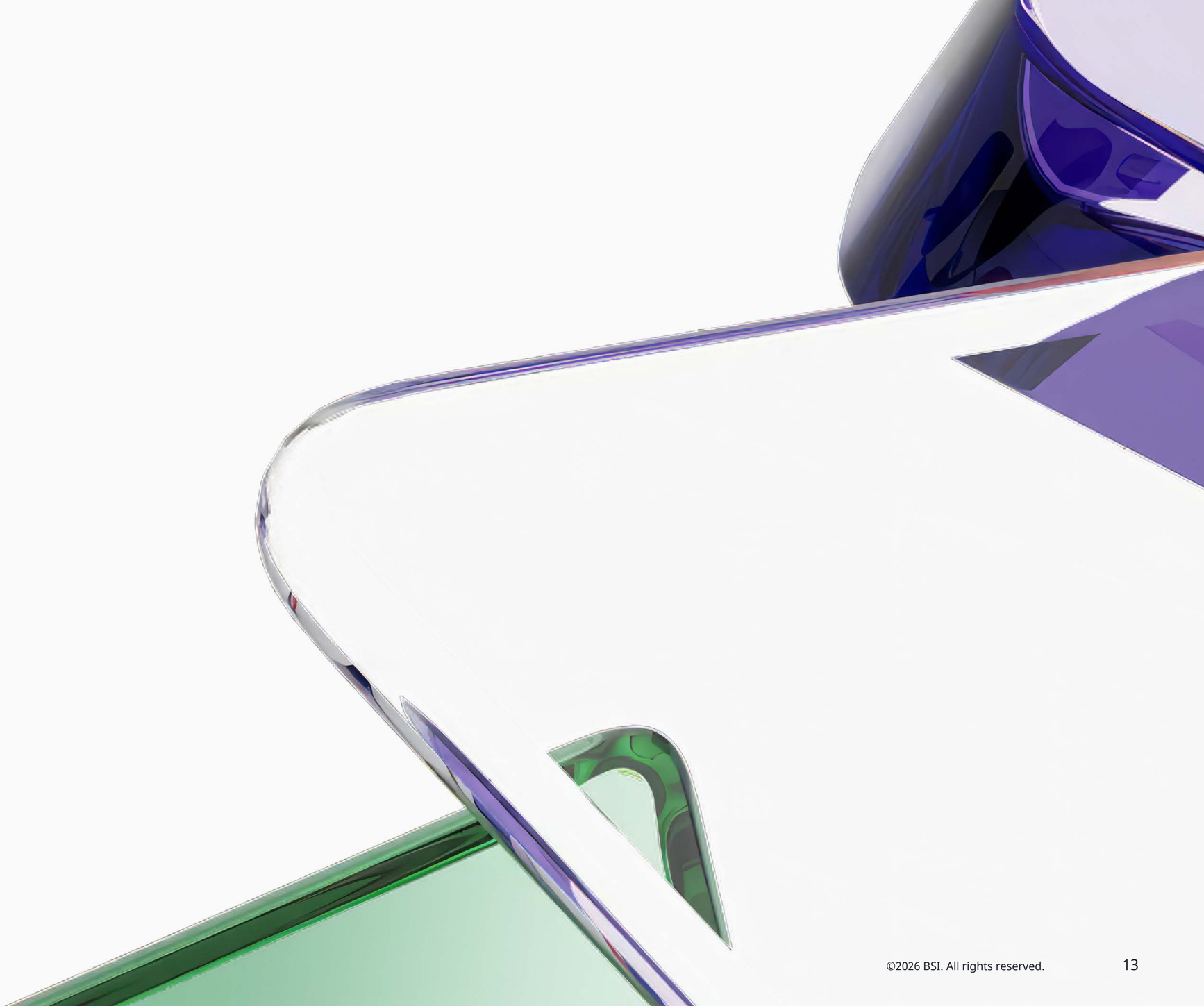

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