VERLÄSSLICHE DATEN IN DER DATENFABRIK
DER WEG ZUR QUALITÄTSSICHERUNG
MIT BIG EVAL!

BiG EVAL Data Quality Automation

HIGH DATA QUALITY.
MASTERED.

Bad Data Quality: A Silent Business Performance Killer

Aware costs

Operative costs

Personnel costs

IT costs

Project delays

Budget overruns

14 Mio. Dollars is the average **financial impact** per year and company caused by **poor data quality.**

Gartner.

47% of newly-created data records have **at least one critical error**.

Harvard Business Review

Hidden costs

MANAGEMENT
- Wrong decisions
- Reputational damages
- High risks

CUSTOMER SERVICE
- Dissatisfied customers
- Troubleshooting costs
- Customer churn

SALES
- Loss in sales
- High acquisition costs
- Inefficient sales pipeline

DATA ANALYTICS
- Costs for data preparation and cleansing
- Erroneous key performance indicators
- Bad recommendations

FINANCES
- Rising costs
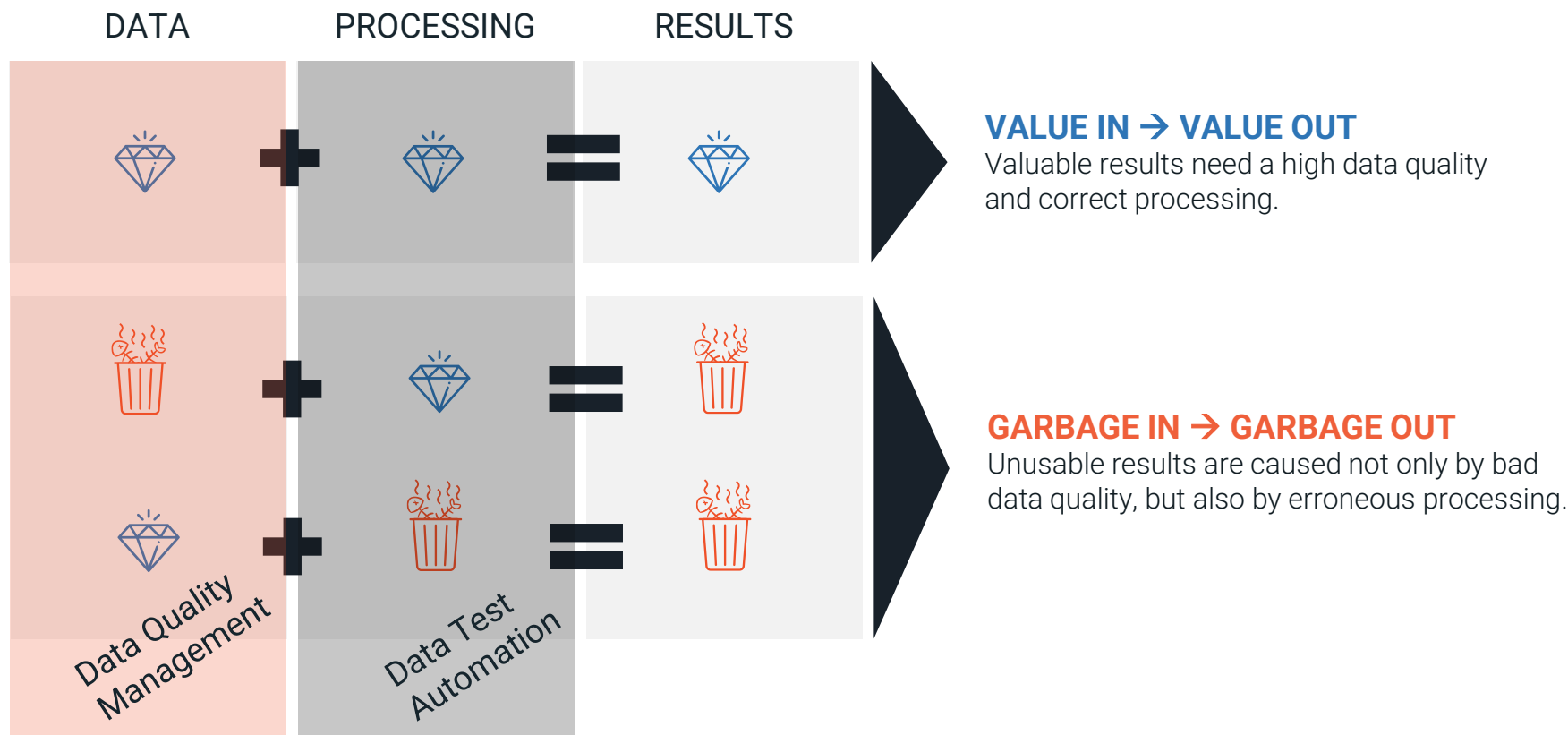- Overdue debts/receivables
- Pricing errors

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High Data Quality. Mastered. swiss made software

Everything is automated and standardized!
Why do we need extra Quality Control?

Value in ➔ Value out

DATA PROCESSING RESULTS

VALUE IN ➔ VALUE OUT
Valuable results need a high data quality and correct processing.

GARBAGE IN ➔ GARBAGE OUT
Unusable results are caused not only by bad data quality, but also by erroneous processing.

Data Quality Management

Data Test Automation

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Unlocking Business Potential through Reliable Data Quality

4

End to End Quality Assurance (in- and outside the fabric)

Out of Control

= uncertain Behavior

= error-prone

Data Sources

Data Integration

DWH

Manual Inputs

Data Fabric

Architecture & Model

Processes

Logic & Transformations

Technologies / SaaS Services

Custom Logic

Manually built?

Presentation

Quality Assurance

Data Cleansing Processes

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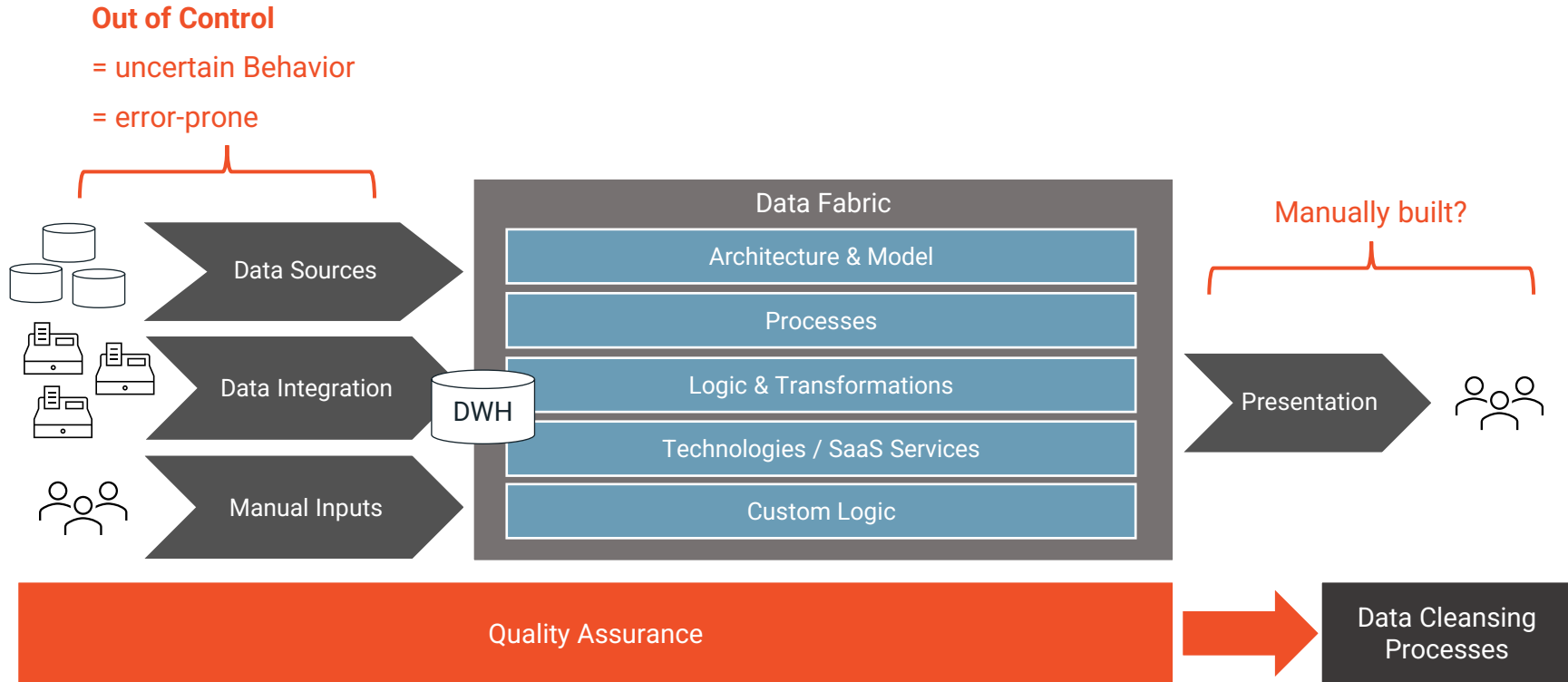
Test Automation in the Release Cycle

Data sources

Data Validation

Data Quality Gates

Live Environment

Data Validation

Deployment

Quality Gate

QA Environment

Regression Testing

Integration

Quality Gate

Development Environment

Regression Testing
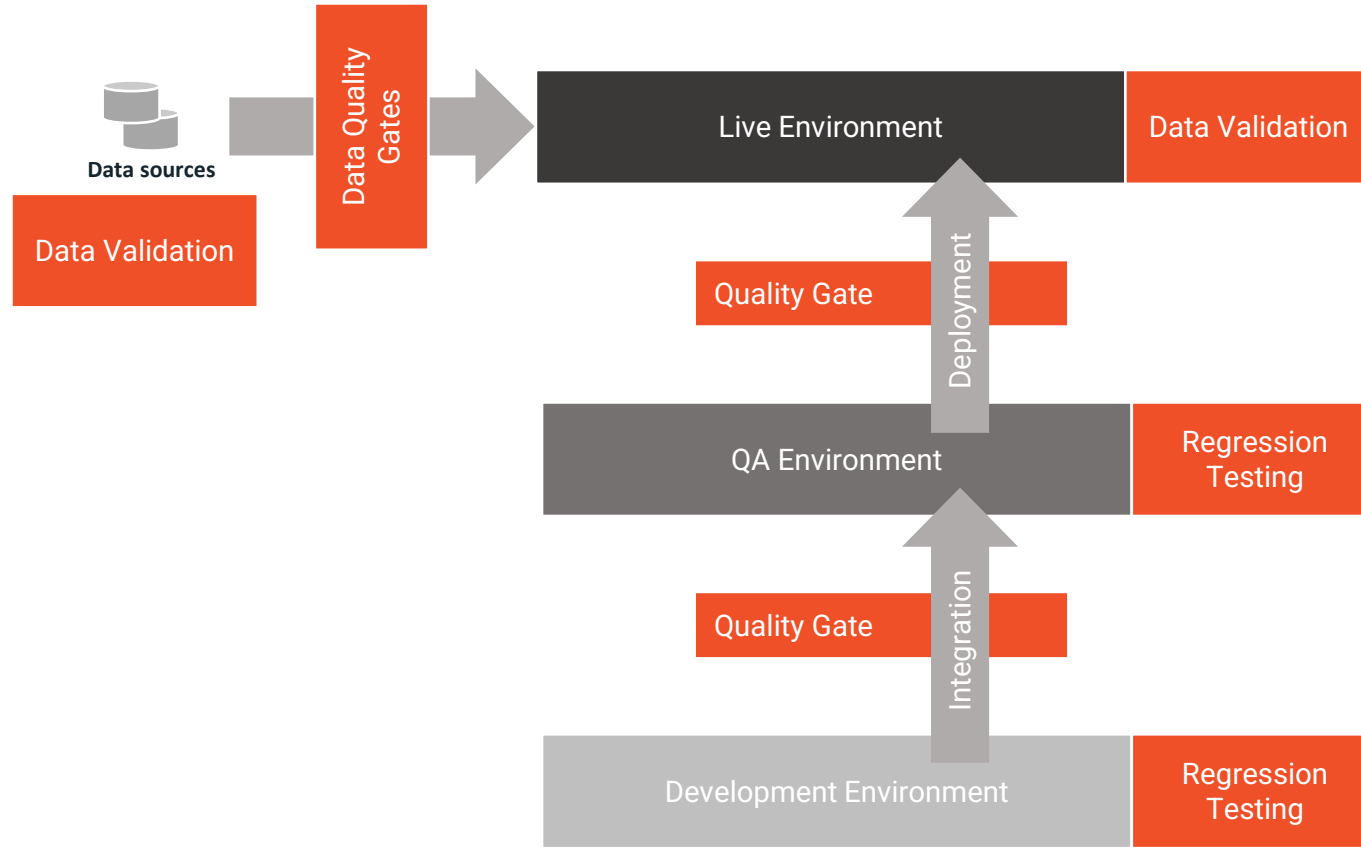
Azure DevOps

PowerShell Module

REST API

Areas of Testing BiG EVAL supports

Data Integration Testing

- Source Data Quality Gating
- ETL / ELT
- Transformations
- Historization
- Logging & Auditability

Data Model Testing

- Integrity
- Consistency
- Completeness
- Scalability
- Schema

Analysis Model Testing

- Plausibility of KPI and information
- Aggregations
- Calculations
- Value Distribution

End to End Testing

- Data Comparisons
- Object Availability / Duplicates
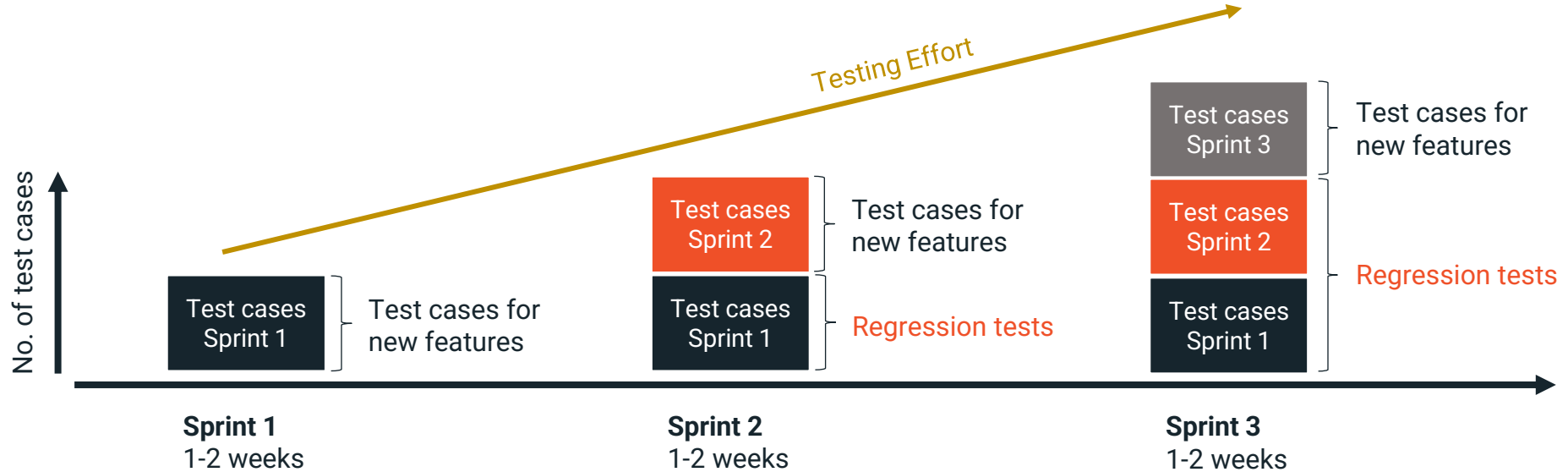- Component Integration

Security Testing

- User Access
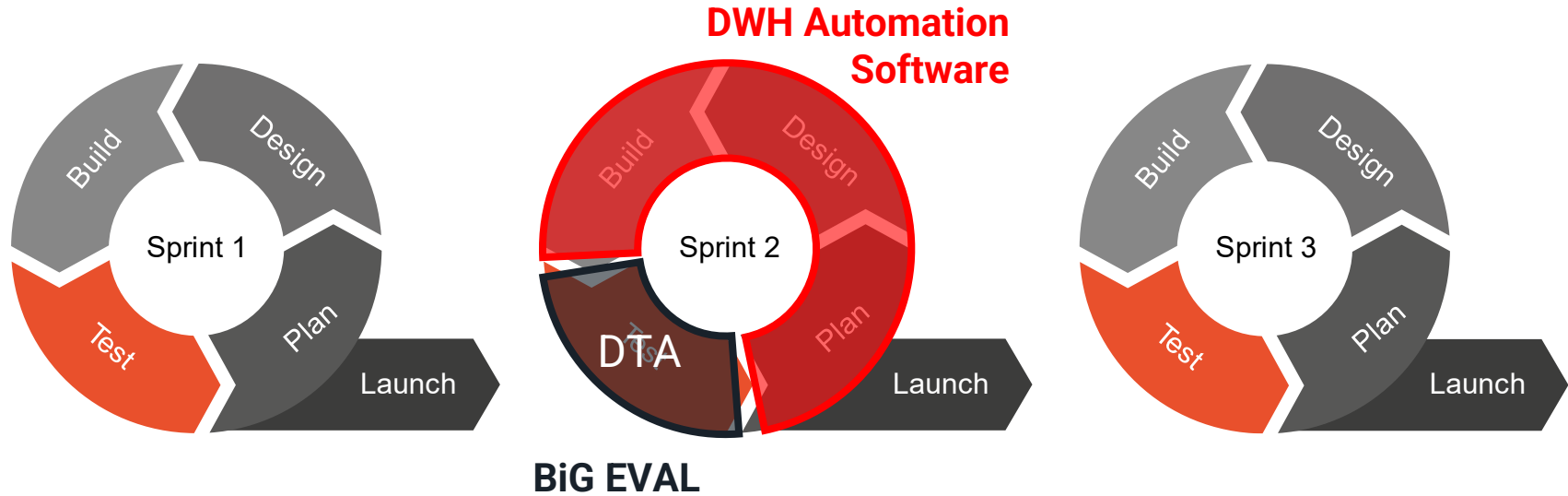- Admin & Operator Access
- Security Auditing

Performance Testing

- Data Integration
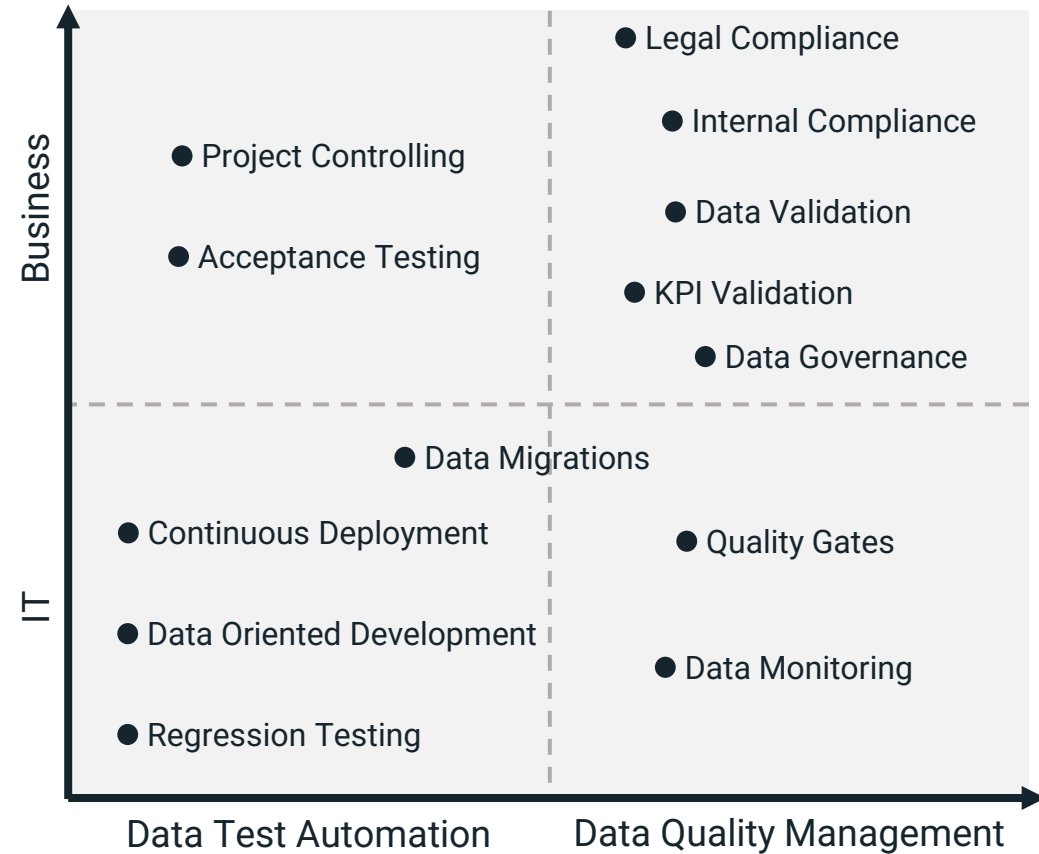- Analysis Model Performance
- Report Performance

Scripted Testing

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Regression Testing

Testing Effort

No. of test cases

Sprint 1
1-2 weeks

Test cases
Sprint 1

Test cases for
new features

Sprint 2
1-2 weeks

Test cases
Sprint 2

Test cases
Sprint 1

Test cases for
new features

Regression tests

Sprint 3
1-2 weeks

Test cases
Sprint 3

Test cases
Sprint 2

Test cases
Sprint 1

Test cases for
new features

Regression tests

Quality Assurance

Compliance & Risk Mitigation

Process Optimization

Business

- Legal Compliance
- Internal Compliance
- Data Validation
- KPI Validation
- Data Governance
- Project Controlling
- Acceptance Testing

IT

- Data Migrations
- Continuous Deployment
- Quality Gates
- Data Oriented Development
- Data Monitoring
- Regression Testing

Data Test Automation   Data Quality Management

How does BiG EVAL operate?

Your data

Data bases

Flatfiles

ERP, CRM, ...

SaaS

Metadata

Processes
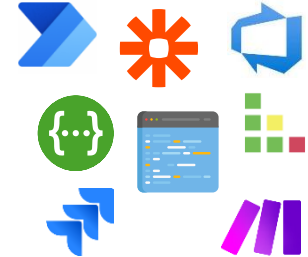
Automated checks for quality criteria
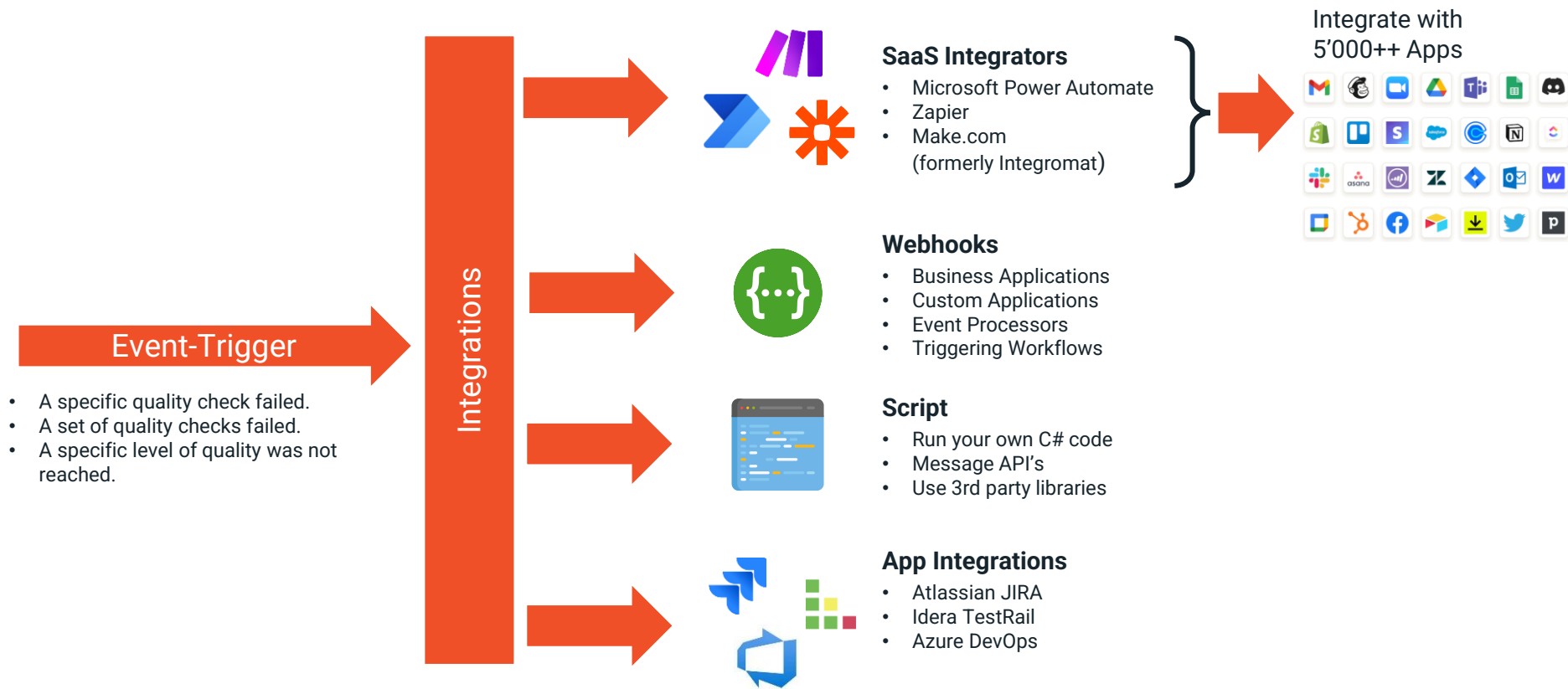
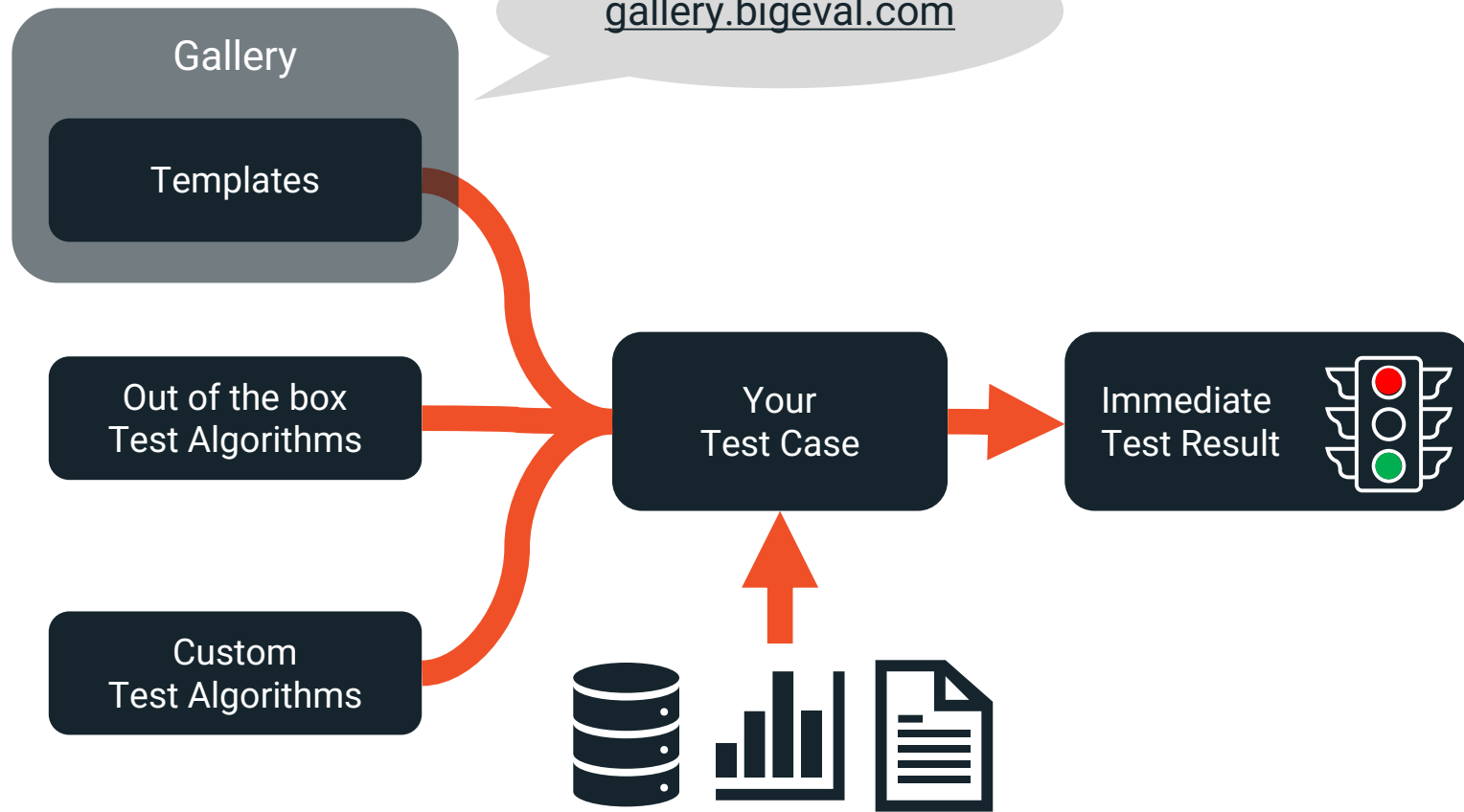**Indications and alerts on detected issues**

Alerting Process & App Integration
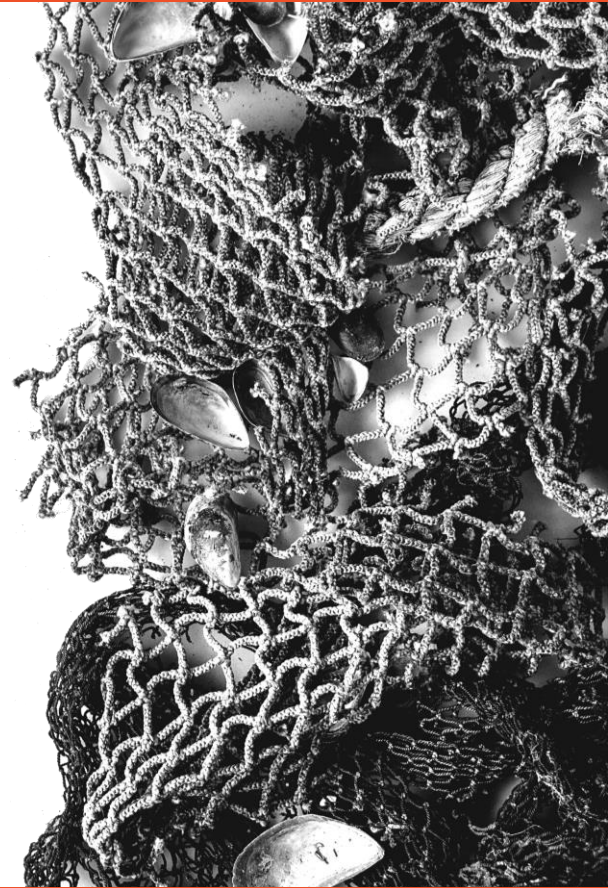
Integrate with 5'000++ Apps

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App Integrations

Event-Trigger

- A specific quality check failed.
- A set of quality checks failed.
- A specific level of quality was not reached.

Integrations

SaaS Integrators
- Microsoft Power Automate
- Zapier
- Make.com
  (formerly Integromat)

Integrate with 5'000++ Apps

Webhooks
- Business Applications
- Custom Applications
- Event Processors
- Triggering Workflows

Script
- Run your own C# code
- Message API's
- Use 3rd party libraries

App Integrations
- Atlassian JIRA
- Idera TestRail
- Azure DevOps

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Same Day Productivity

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Gallery

Templates

Out of the box
Test Algorithms

Custom
Test Algorithms

Your
Test Case

Immediate
Test Result

DEMO

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Same Day Productivity

Gallery

Templates

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Partner Templates

Out of the box
Test Algorithms

Your
Test Case

Immediate
Test Result

Custom
Test Algorithms

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LET'S GO FISHING!

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