SPL.

Software Product Line

SOFTWARE MODERNIZATION AND MIGRATION SOLUTION

SPL makes you ready for digital transformation

ADOPT EMERGING TECHNOLOGY & DELIVER BUSINESS AGILITY

SPL provides software modernization services, for medium to large corporations, reducing the high cost of transforming software systems to Cloud and Mico-Service Architecture

- **Accelerating digital transformation**: Application modernization is driven by the need to transform business to build capabilities and deliver them quickly.

- **Improving developer productivity**: Adopting cloud-native and containerization technology enables self service for developers.

- **Improving operational efficiency and standardization**.

SPL MODERNIZATION SERVICE

RISK ASSESSMENT

Assessment report on transformation applicability and recommendation

MODENRIZE

SPL Toolset, and expert to execute the transformation strategy

MANAGE

SPL Toolset for continuance Delivery and governance

SPL MODERNIZATION SERVICE

RISK

ASSESSMENT

Assessment
- Applications evaluated based on business needs
- Potential issues and migration complexity assessments

Strategic Planning
- Identification of key applications that require replacement or upgrade
- Estimated effort for resolving migration issues
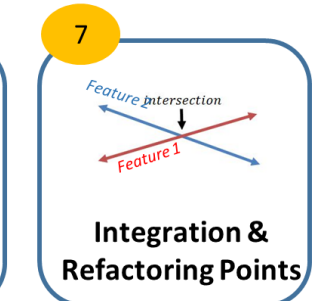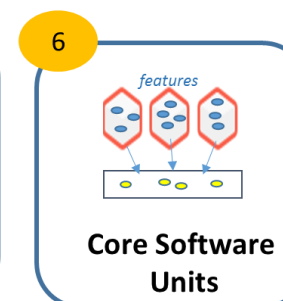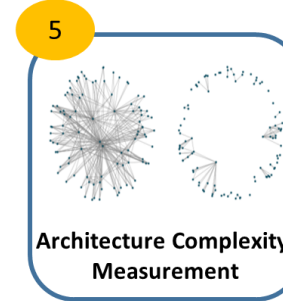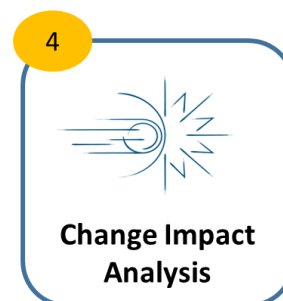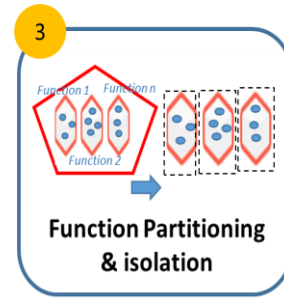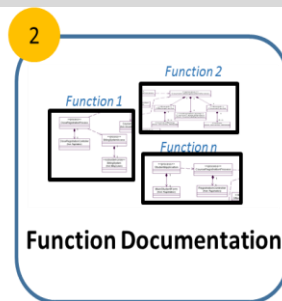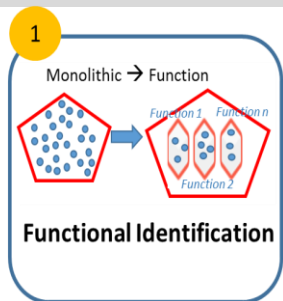- Recommendations for a modernization path

SPL MODERNIZATION SERVICE

SPL Toolsets for migration and continence analysis

- Business Function Identification
- Traceability across Business Function
- Code Partitioning & Versioning
- Change Impact Analysis
- Complexity Measurement
- Core Software Units Identification
- Integration & Refactoring Points Identification

MODERNIZE

1 Functional Identification

Monolithic → Function

2 Function Documentation

Function 1 Function 2 Function n

3 Function Partitioning & isolation

Function 1 Function n Function 2

4 Change Impact Analysis

5 Architecture Complexity Measurement

6 Core Software Units

features

7 Integration & Refactoring Points

Feature Intersection Feature 1

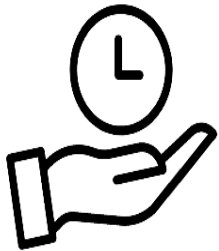# SPL MODERNIZATION SERVICE

MANAGE

SPL Continuance Delivery (Future)
- DevOps Integration
- Automatic Cloud-Transformation & Deployment
- Quality Assessment
- Regression Testing Automation
- Reference Architecture Live Documentation

SPL SERVICES BUSINESS VALUE

Speed the Implementation of Digital Transformation Strategy within your Organization by 30%

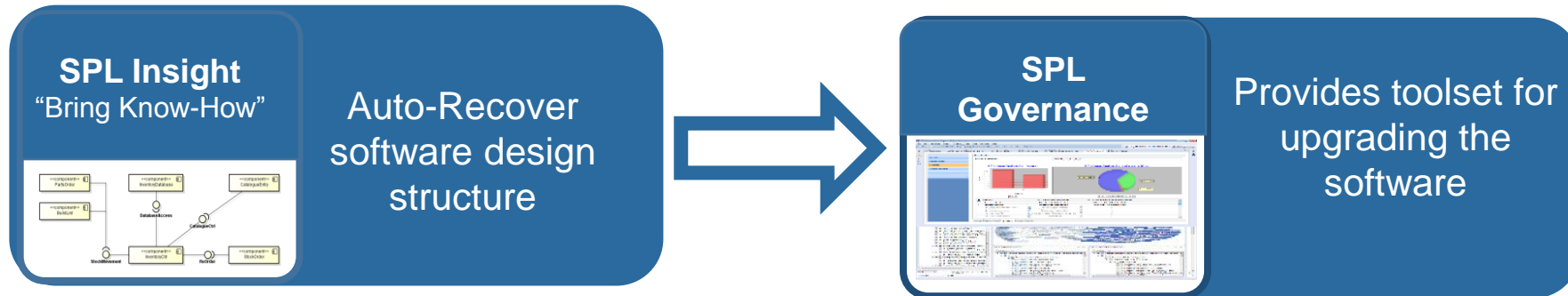Legacy code analysis and documentation in **Mins**

Reduce manpower by **80%**

Highlights flaw **In minutes**

Our SPL Solution

SPL : AI Platform For Analyzing Software Systems

"**Agile & easy** integration software solution which
provides insight into legacy code and increase your software upgrading efficiency to
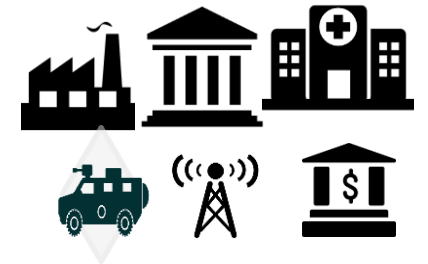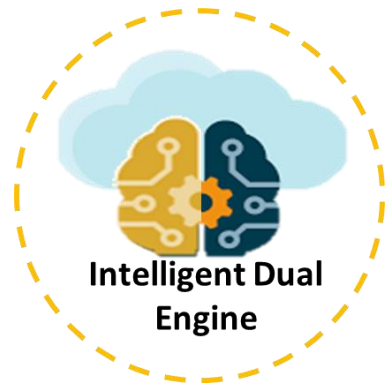cloud and micro-service architecture"

Distribution Model

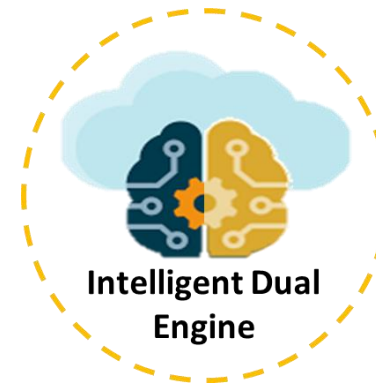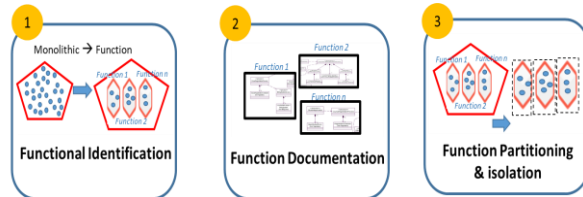SPL-license   SPL-as-a-Service

Target sector

SPL Insight
"Bring Know-How"

Auto-Recover software design structure

SPL Governance

Provides toolset for upgrading the software

SPL TOOLSET

Intelligent Dual Engine

SPL Insight

Architecture Recovery & Documentation Extraction

1. Functional Identification
2. Function Documentation
3. Function Partitioning & isolation

Intelligent Dual Engine

SPL Governance

Modernization Analysis and Micro-Service Migration Services

4. Change Impact Analysis
5. Architecture Complexity Measurement
6. Core Software Units
7. Integration & Refactoring Points
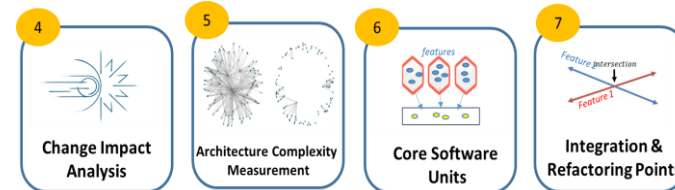
SPL Solution Applications

Cloud Migration

33% of project are follow Lift & Shift strategy

Software Maintenance

72% of IT spending on upgrading or integrating existing functionalities

Software Auditing

100% enterprises should audit quality and vulnerability of their outsourced software

Traction

Trials and used by <u>British Telecom and EBTIC</u>

Achievement:

- Granted by UAE AI Ministry the AI Seal

- Novel and unique mining techniques developed

- 300K AED Grant Received: Khalifa Innovation Center Grant for Technology Exploitation received

- Two Patents are in filling process

- Participated in International conference

- International recognition

  - IET Award Finalist

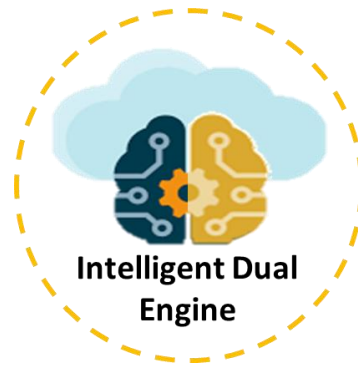 - Won Global Telecom Award GTB,

GTB Winner. Panel commented:
"Very innovative and unique entry. If SPL does what it claims it will have a real impact on software quality, time to market and maintenance costs"

SPL TOOLSET USERS

SPL BT Trials

*SPL Solution is currently used by BT software development warehouse & R&D lab*

Feedback*:*

"SPL solution helps in planning and study the complexity of migrating monolithic application to micro-service architecture"
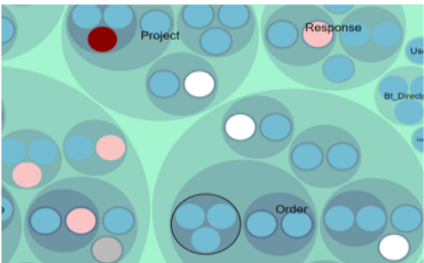
"SPL helps in validation software architecture and documenting our code based"

"40% is an estimation of potential applications for cost saving that SPL solution can assist with"

Summary BT Trial

Intelligent Dual Engine

A | Architecture Comprehension
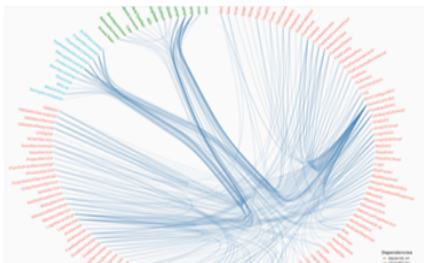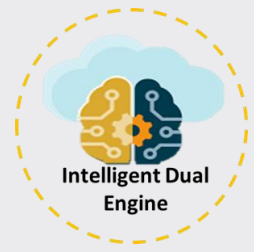
1. Multi-Level Business Component identification

2. Software components Semantic Clustering

3. Software Architecture Visualization

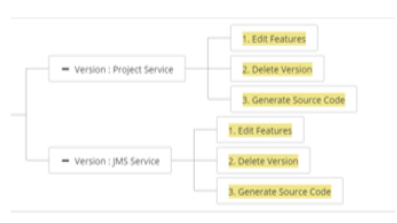## B | Architecture Assessment

1. Business Component Ranking/ Filtering
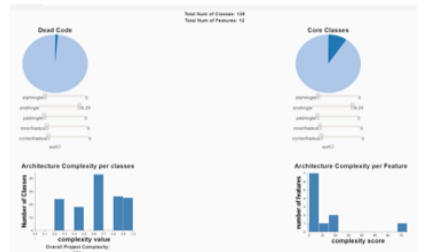
2. Quality (Complexity, Dead Code)
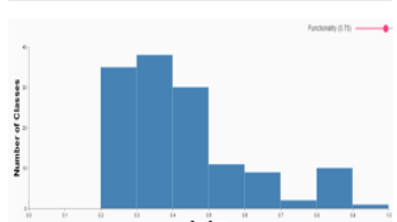

3. External Library (security flaw)

C | Architecture Governance

1. Business component partitioning

2. Integration Points

3. Shared/common Codebase

Analysis Speed

BT Trial : BT Field-Optimization Project—**+100K line code**
Code Analysis/Synthesis Duration - automatic : 15 min

Analysis output

1. **Micro-services Functions:** 80% of the identified functions in both projects can be considered as **micro-services.**
2. **Functional Coup Architecture Description**: Each identified functions can be visualised as tree/radial.
3. **coupling :** very Low, very modular monolithic application.
4. **Complexity Measurement**: Low, 30% of the classes are highly connected with each other.
5. **Dead Code**: 6% of the code-based.
6. **Reusable Code**: 10%
7. **External library**: Latest

CONTACT US

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