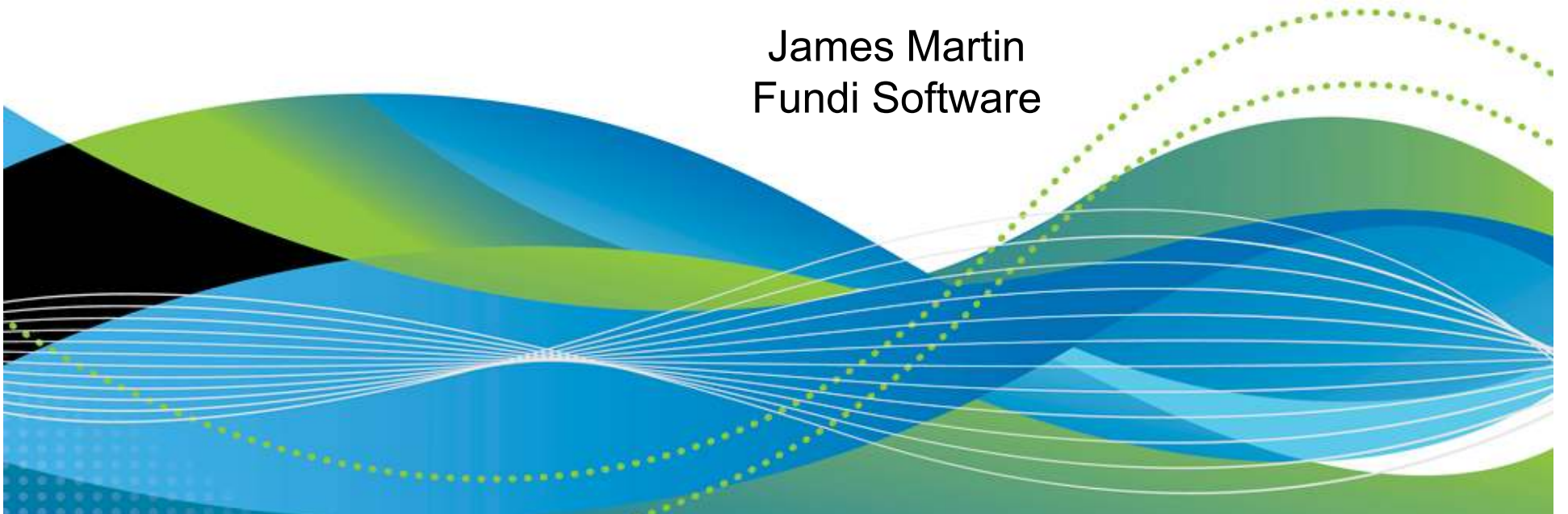# IBM Transaction Analysis Workbench LAB

Session: 10799
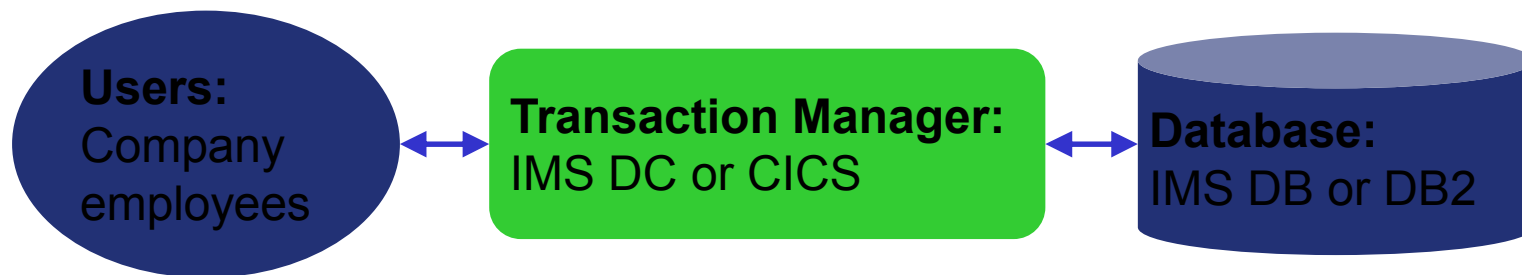
James Martin
Fundi Software
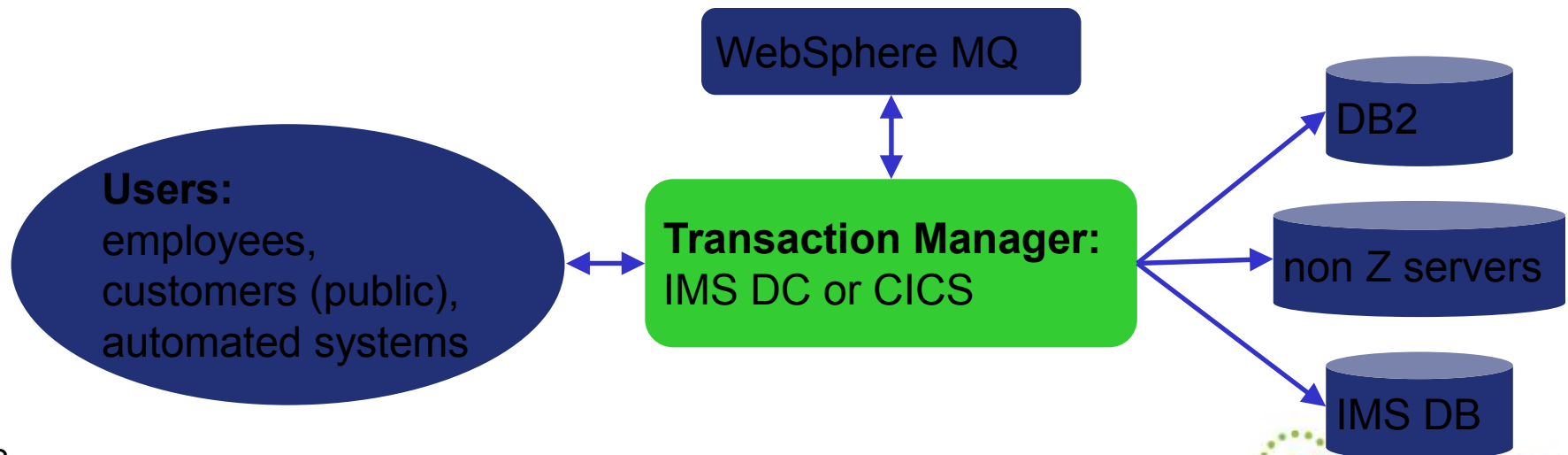
It's all about evolution

1980: in-house users only; simple data, single data store
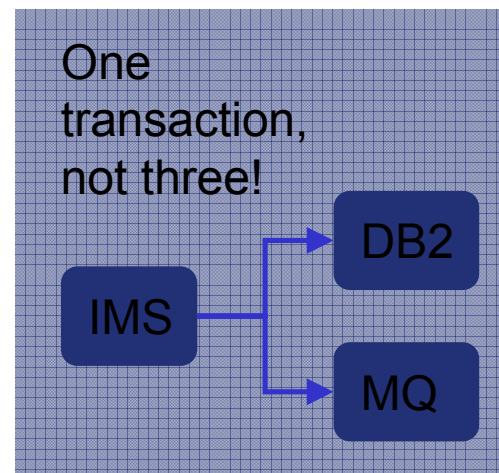
```
┌──────────────┐        ┌────────────────────────┐        ┌──────────────┐
│   Users:     │  <──>  │ Transaction Manager:   │  <──>  │  Database:   │
│   Company    │        │ IMS DC or CICS         │        │  IMS DB or DB2│
│   employees  │        │                        │        │              │
└──────────────┘        └────────────────────────┘        └──────────────┘
```

2010: users are customers; data is complex, often distributed

```
                              ┌──────────────────┐
                              │  WebSphere MQ    │
                              └──────────────────┘                    ┌──────────┐
                                       ↕                              │   DB2    │
┌──────────────────┐        ┌────────────────────────┐              └──────────┘
│   Users:         │        │ Transaction Manager:   │              ┌──────────┐
│   employees,     │  <──>  │ IMS DC or CICS         │   ────>      │non Z servers│
│   customers (public),     │                        │              └──────────┘
│   automated systems       │                        │              ┌──────────┐
└──────────────────┘        └────────────────────────┘              │  IMS DB  │
                                                                     └──────────┘
```
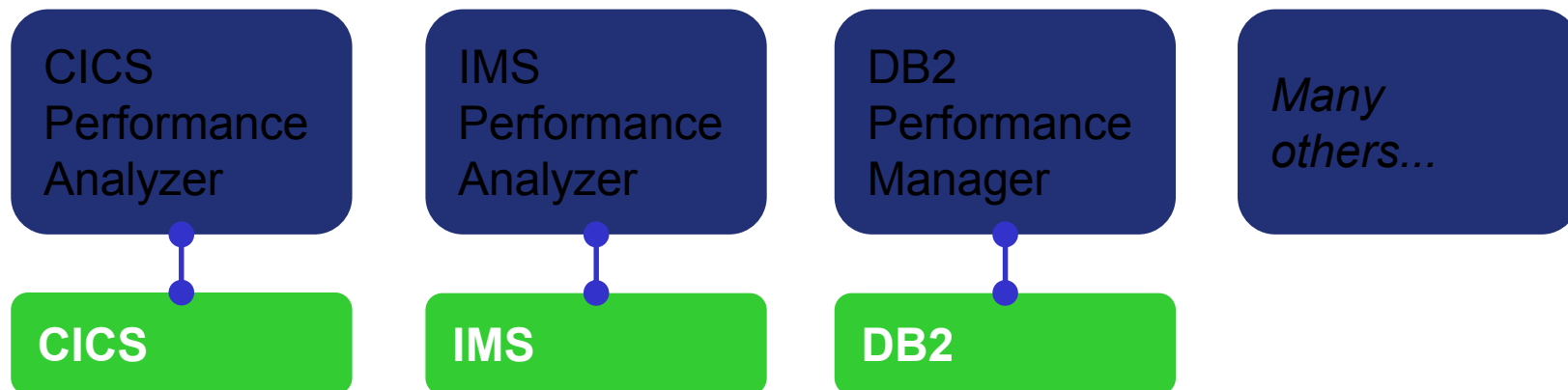
2

Analysis tools have not kept pace

There are many tools to help analyze *individual* transaction environments on System z:

CICS Performance Analyzer	IMS Performance Analyzer	DB2 Performance Manager	*Many others...*
CICS	**IMS**	**DB2**	

One transaction, not four!

CICS → IMS
CICS → DB2
CICS → MQ

One transaction, not three!

IMS → DB2
IMS → MQ
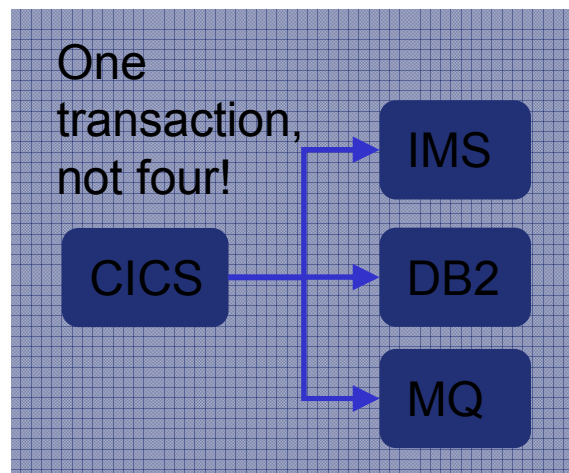
Each tool is well-suited to its environment, but you often need a subject matter expert to use each tool

SHARE in Atlanta 2012

Transaction Analysis Workbench: the product

- A transaction analysis framework for System z
  - Not transaction manager specific
  - Leverages current IBM tools for transaction analysis
- Not IMS or CICS specific, but first release provides more synergy with the existing tools for those transaction managers
- Automates collection of data needed for problem analysis
- Provides a session manager to manage problem analysis through its lifecycle
- In this presentation, it might look like the Workbench is IMS or CICS centric but that is not the case
  - The tools for IMS and CICS are the first to be engaged

Transaction Analysis Workbench: Goals

1. Enable higher productivity by lower skilled staff, reduce problem analysis time, and serve as a training tool for new support staff

2. Allow the 'First Responder' to determine the most likely source of the problem so that the right subject matter expert can work on the problem

3. Allow for 'Deep dive' problem determination via synergy with other IBM tools

   - Subject matter experts may also use tools not supported by the Workbench