

Cost Savings While Increasing Capacity

How DB2 Professionals and Capacity Planners
Can Reduce Costs and Drive Greater Value

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SETTING CHANGE IN MOTION

Can be done using low-risk, high-reward solutions:

- Change at the system level
- Change at the application level
- Change at the database level

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LOW RISK & HIGH REWARD SOLUTIONS

at the system level.

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IT Business Intelligence

Containing costs while increasing capacity at the system level:

- Cost transparency
- Mapping of capacity usage
- Automate analysis and reporting

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IT Business Intelligence

Example: Easy problem identification



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Automated soft capping

Containing costs and increase capacity without capping:

- ⦿ Soft capping can save on costs
- ⦿ But nobody uses it because of the capping part

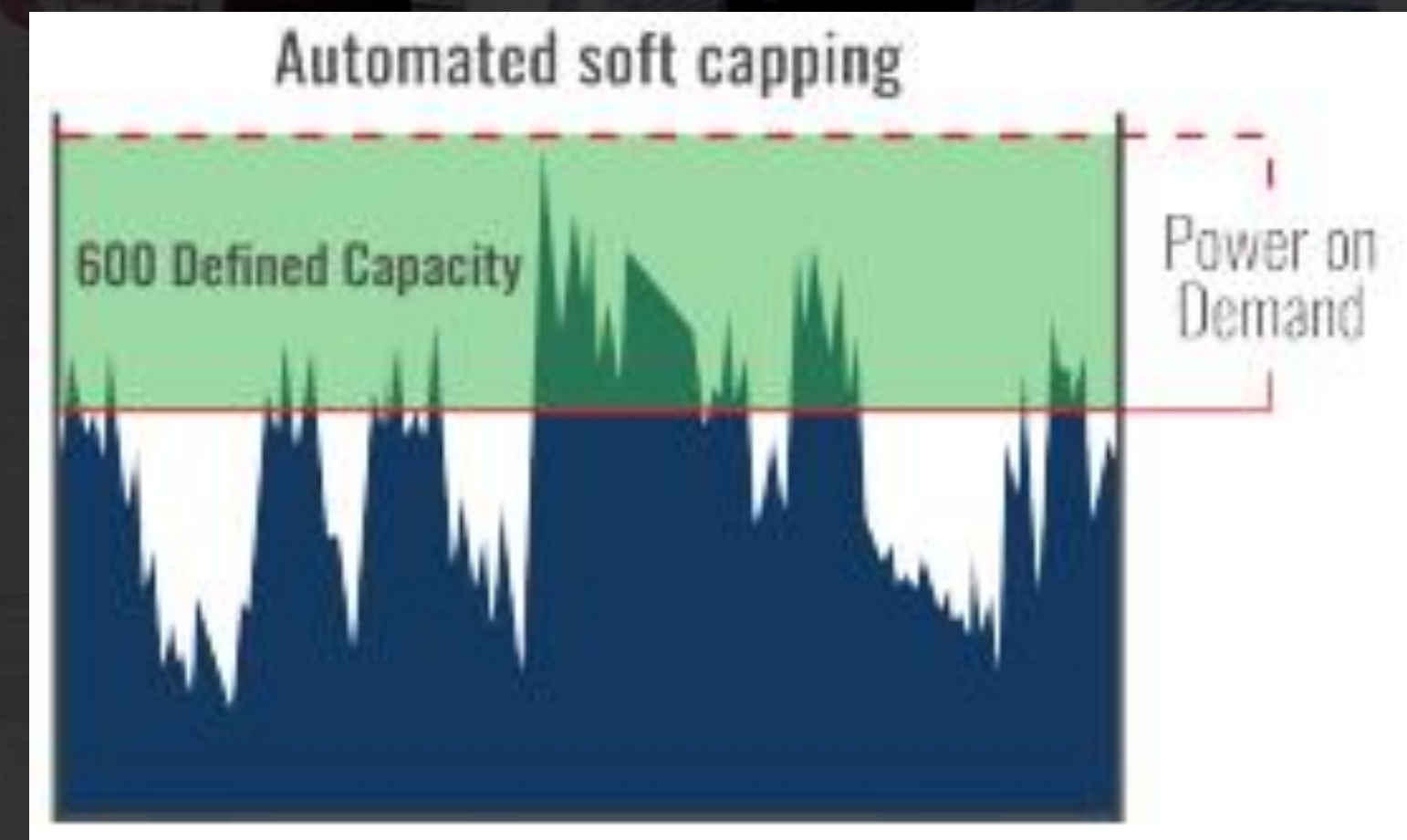
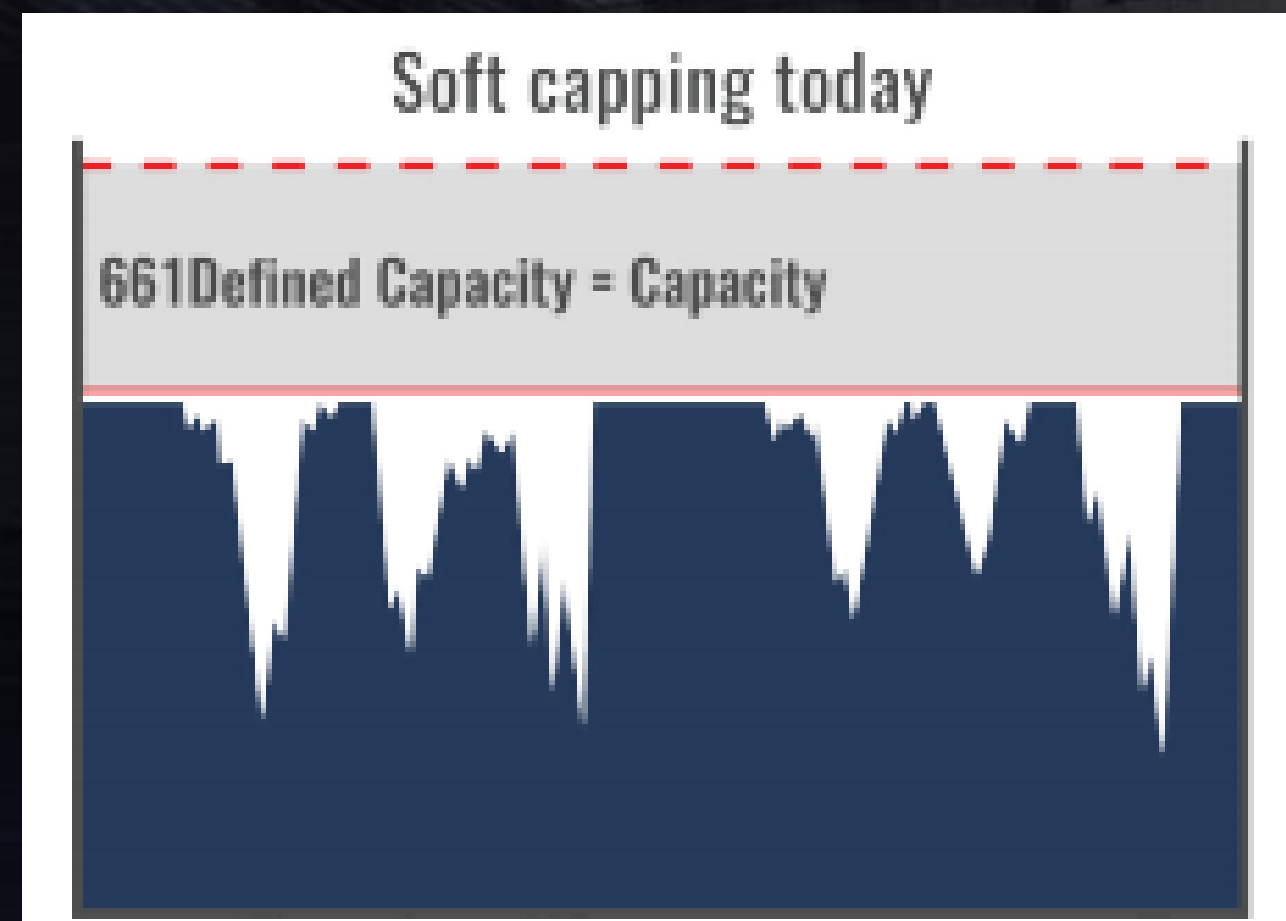
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Automated soft capping

Example: soft capping without the capping



Result: cost savings & capacity improvement without the risk of capping

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smart data integration

- Data integration workloads are zIIP eligible
- Use a data integration solution that maximizes zIIP usage

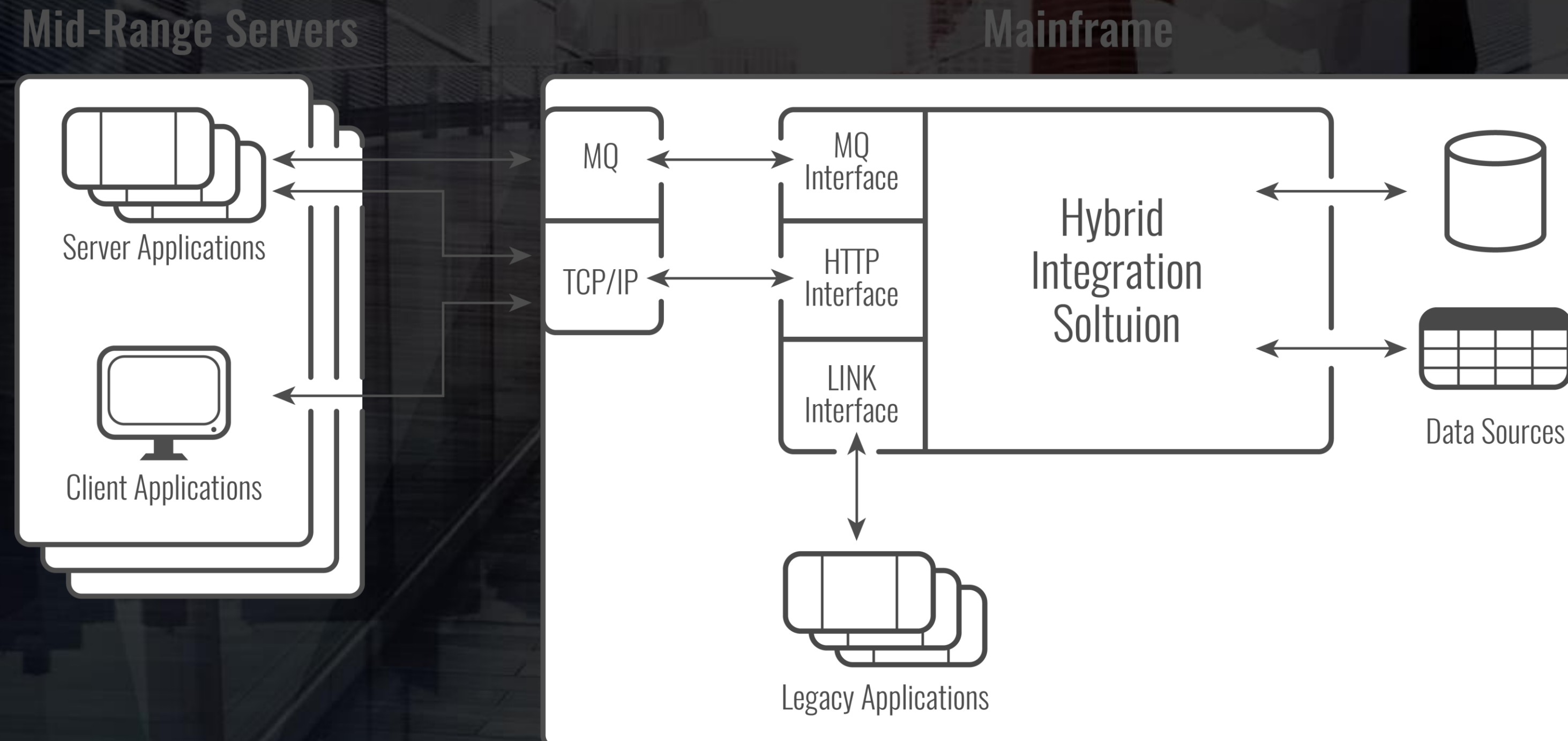
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smart data integration

Examples: Integration workloads maximizing zIIP usage



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LOW RISK & HIGH REWARD SOLUTIONS

at the application level.

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In-memory technology

Contain costs at the application level:

- Batch applications can be resource and capacity hogs
- Ever-increasing workloads are also problematic

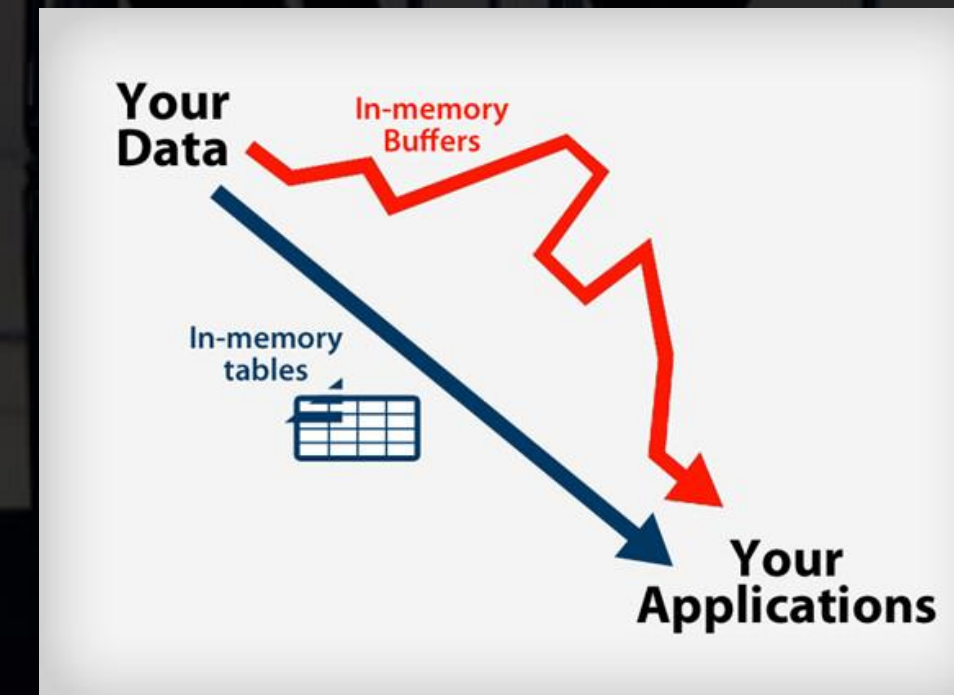
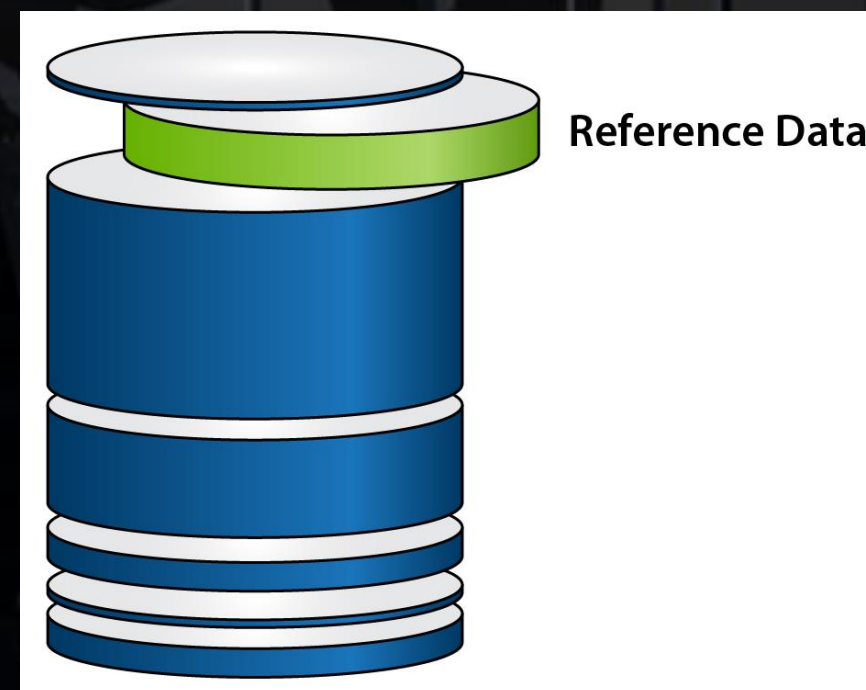
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In-memory technology

Improve system capacity and overall operations cost. At the application level...



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LOW RISK & HIGH REWARD SOLUTIONS

at the database level.

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Smart data replication

Data replication challenges:

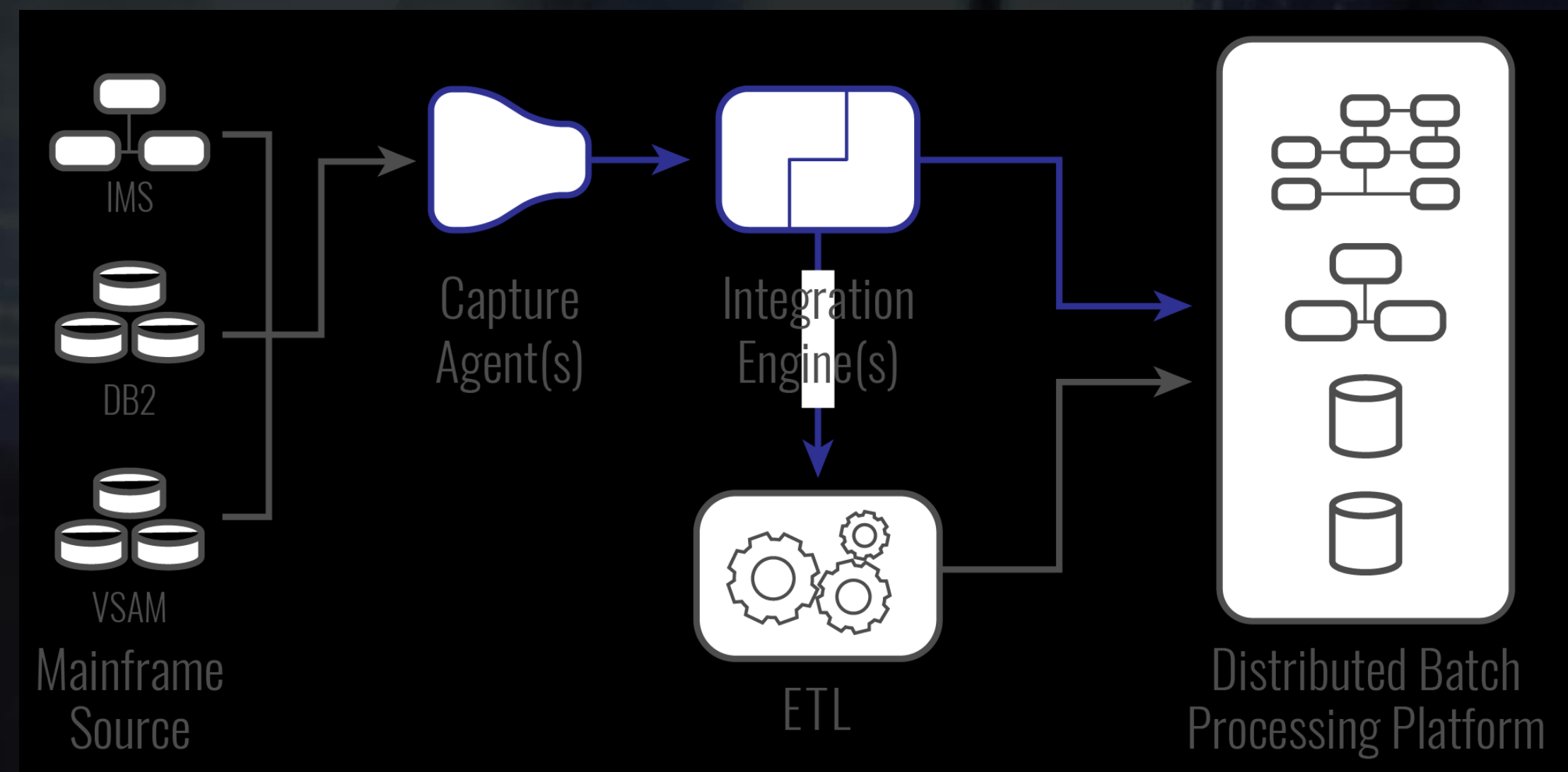
- ⦿ DB2-to-DB2
- ⦿ IMS-to-DB2 and back
- ⦿ Mainframe to distributed and back
- ⦿ Big Data

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Smart data replication



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Automated SQL quality

DB2 SQL quality concerns:

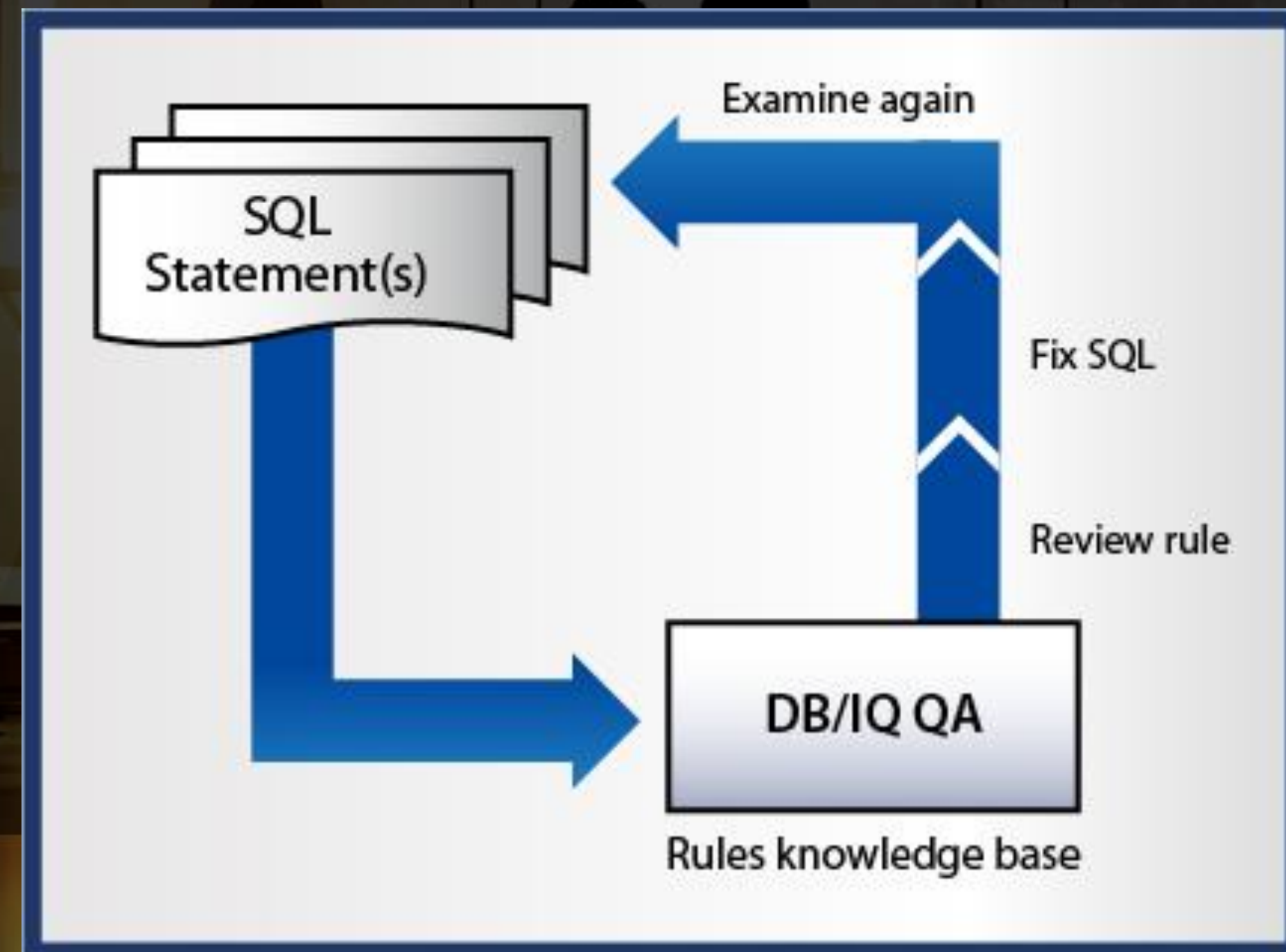
- ⦿ Bugs very costly when detected by customers
- ⦿ Some bugs are not identified by monitoring tools
- ⦿ SQL quality hard to control in outsourced environments

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Automated SQL quality



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SUMMARY

Solution	Improved Performance / Capacity	Cost Savings
SYSTEM LEVEL: IT Business Intelligence	3 – 8 %	10 %
SYSTEM LEVEL: Automated soft capping	4 – 8 %	7 – 15 %
SYSTEM LEVEL: Smart data integration	5 – 10 %	5 – 10 %
APPLICATION LEVEL: Mainframe high-performance in-memory technology	4 – 10 %	4 – 8 %
DATABASE LEVEL: Smart multi-platform enterprise replication	3 – 10 %	5 – 9 %
DATABASE LEVEL: Automated DB2 SQL quality	2 – 8 %	5 – 7 %
Combined:	> 20 %	> 30%

* Conservative estimates – actual result are often much better

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IMPORTANT ANSWERS TO IMPORTANT QUESTIONS



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THANKYOU

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