

REGISTERS IN MODERN SYSTEMS AND SMART DIGITALCITIES

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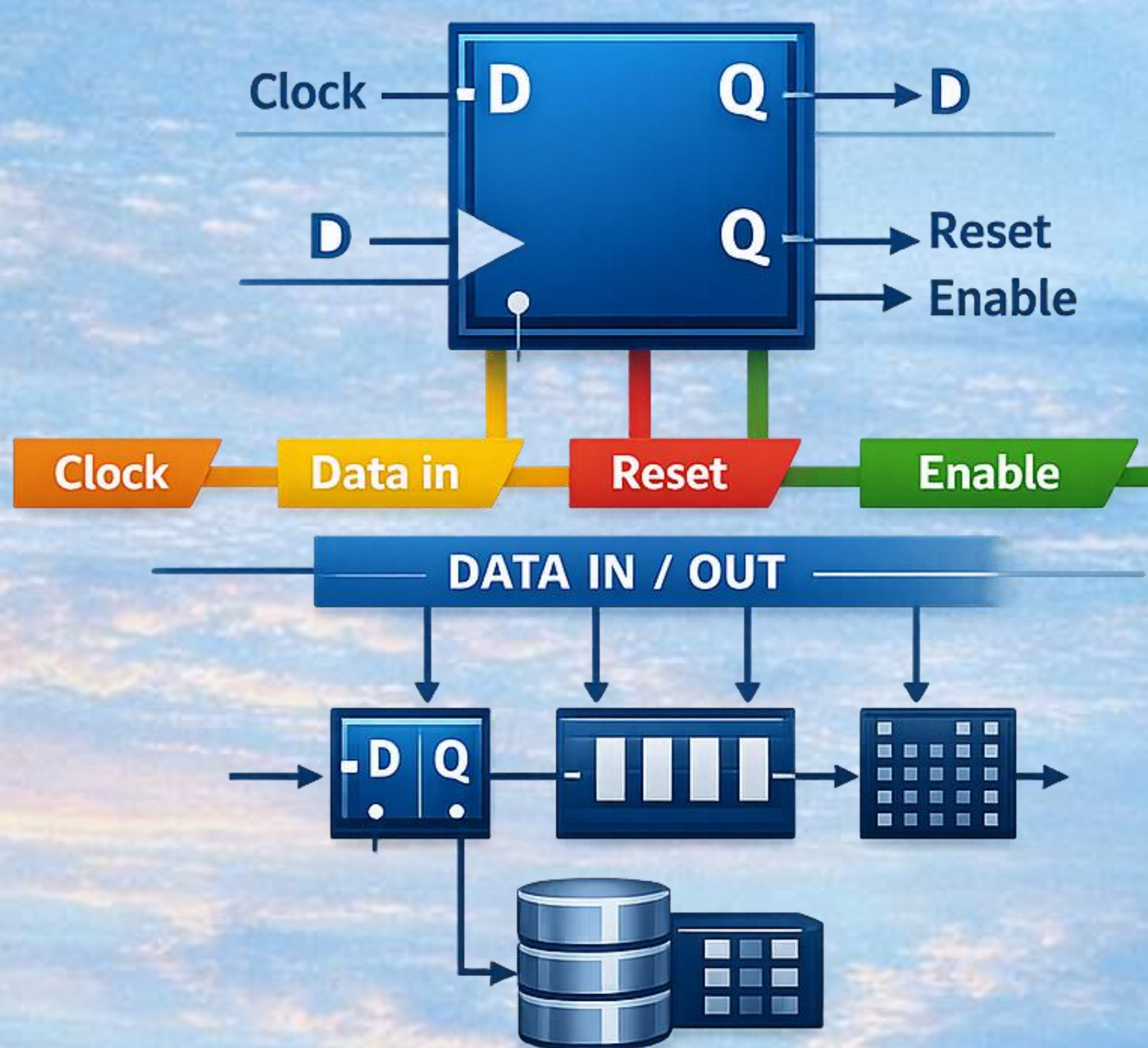
SUMMARY

- Registers are key components in digital systems enabling fast and deterministic data processing.
- This study examines their role in smart city and IoT environments.

INTRODUCTION

- Importance of registers in digital systems
- Need for real-time data processing in smart cities
- Objectives: Analyze register architecture and applications.

Register Architecture



Traffic
Control Systems



Energy
Management



IoT &
Sensor Networks



Security
& Monitoring

CONCLUSION

- Enabling real-time, reliable processing
- Essential for smart city infrastructure
- Supports scalability & energy efficiency