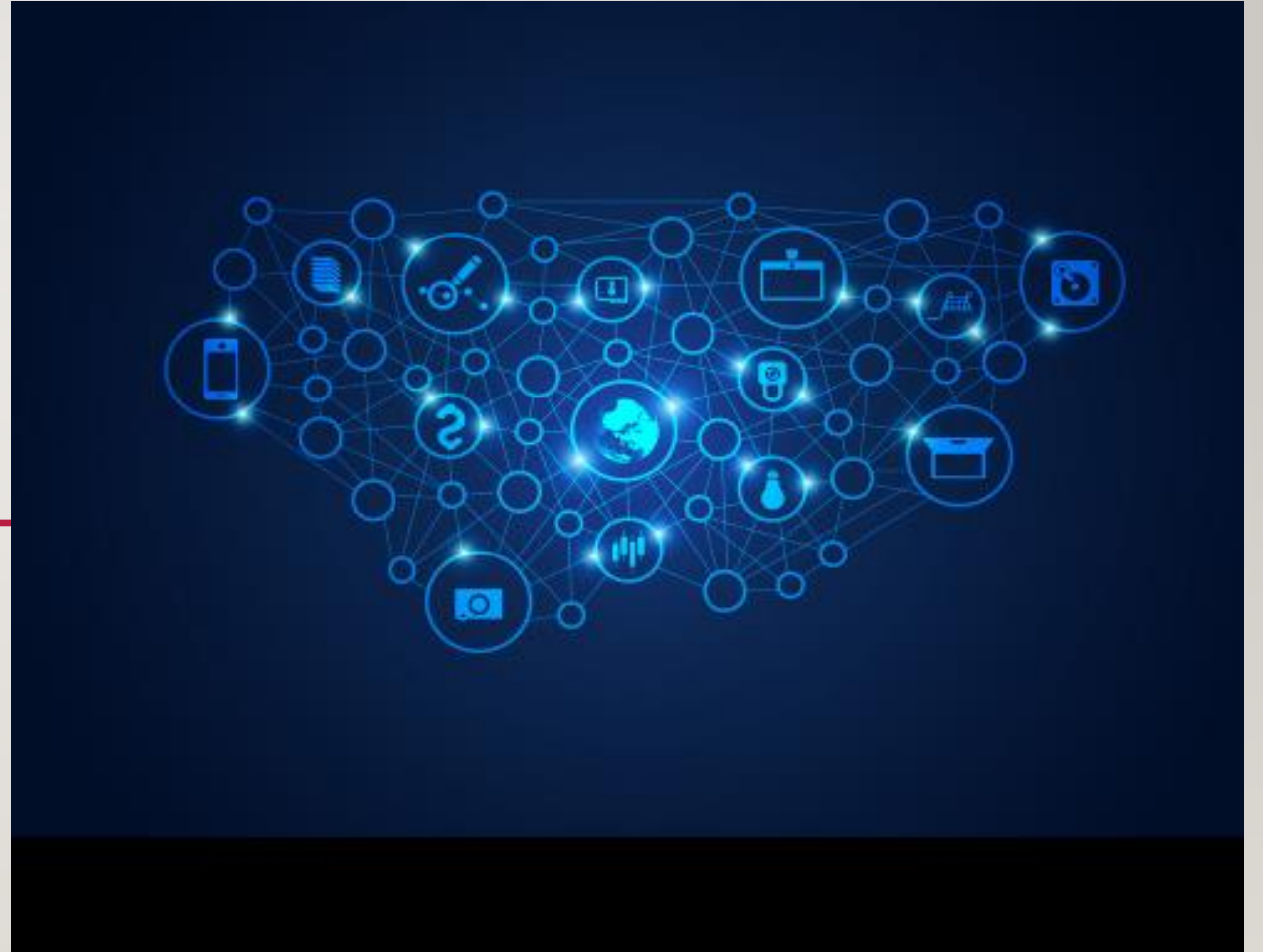


# IMAGE RECOGNITION

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IBM CLOUD



# IMAGE RECOGNITION WITH IBM CLOUD VISUAL RECOGNITION

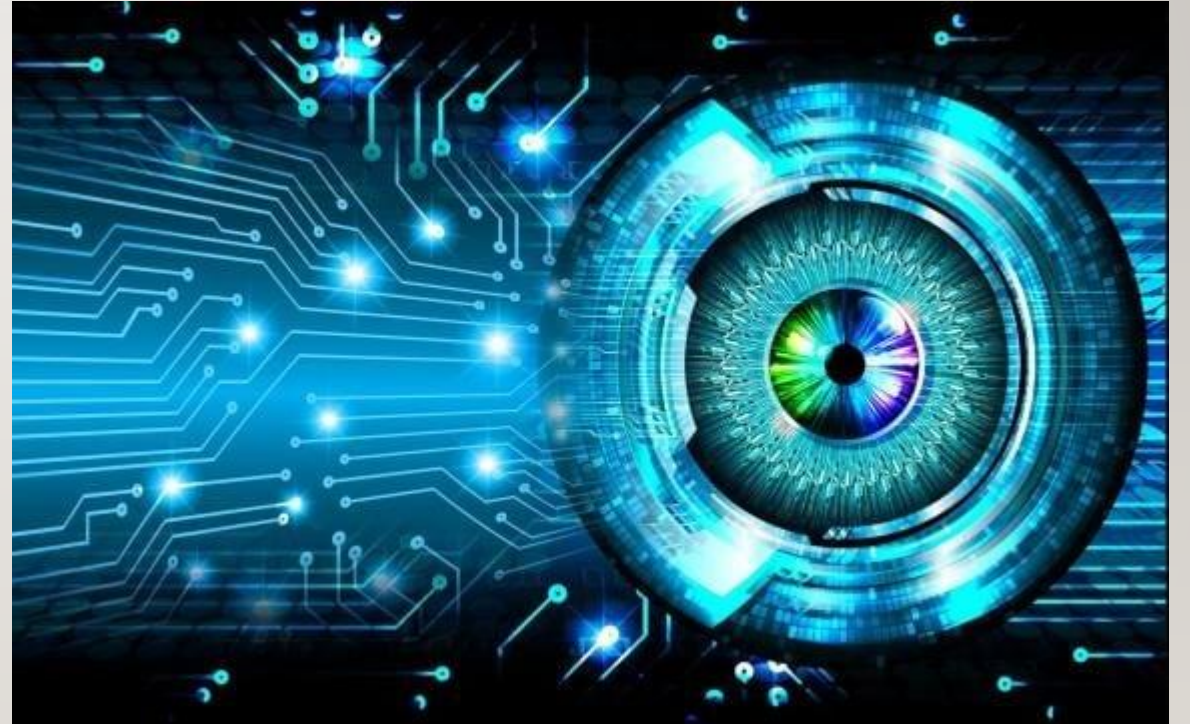
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- ✓ INTRODUCTION
- ✓ THE PROBLEM
- ✓ DESIGN THINKING
- ✓ IBM WATSON
- ✓ HOW IT WORKS
- ✓ INNOVATIVE SOLUTION
- ✓ CONCLUSION

# INTRODUCTION

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- **IBM Watson** Visual recognition is a powerful tool that can enhance image analysis workflow.
- This cloud based service uses deep learning algorithms to identify objects, faces and scenes in image.



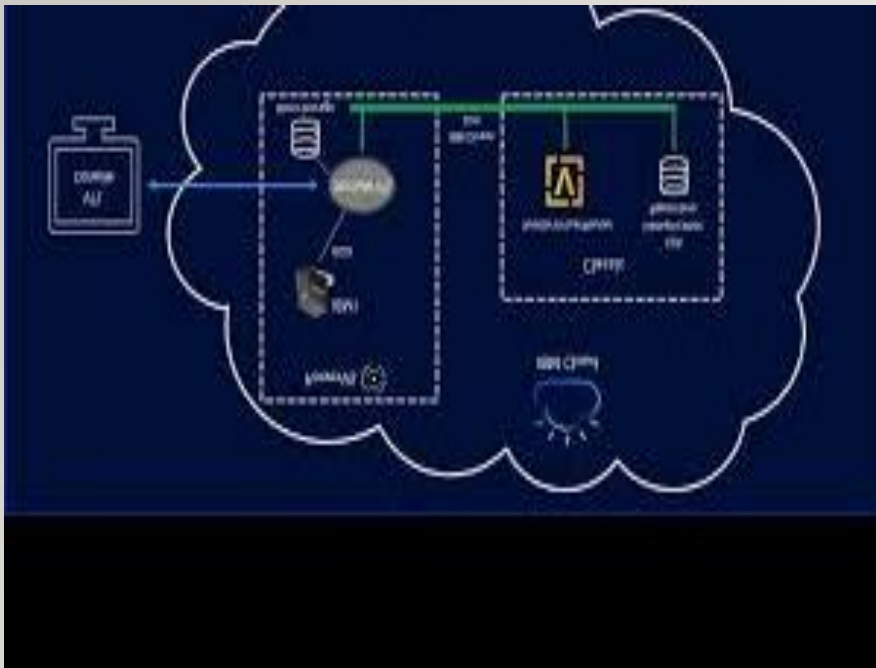


# INTRODUCTION

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- ✓ Conversational Design
- ✓ Data Collection and Preprocessing
- ✓ Intent Recognition
- ✓ User Input Handling
- ✓ Integration with External Systems
- ✓ User Authentication and Security
- ✓ Testing
- ✓ Deployment Environment
- ✓ Monitoring and Analytics

# PROBLEM



We live in a visual world yet capturing useful information from images has historically required human vision which can be slow and costly.

✓ Data Loss:

Data stored in the cloud can be vulnerable to loss due to hardware failures, data corruption, or accidental deletions

✓ Downtime:

Unexpected outages can disrupt services, resulting in downtime and revenue loss.

## ✓ Security Breaches:

Cyberattacks or unauthorized access can compromise data integrity and availability.

# DESIGN THINKING

- ✓ Empathize: Understand the needs and challenges of IBM's cloud clients in disaster recovery.
- ✓ Define: Clearly define the problem and identify key stakeholders.
- ✓ Ideate: Brainstorm innovative solutions, considering data replication, backup, and failover strategies.
- ✓ Prototype: Create and test mock-ups or proof-of-concept designs.
- ✓ Test: Conduct real-world testing and gather feedback for refinement.
- ✓ Implement: Develop and deploy the chosen disaster recovery solutions, ensuring integration with IBM's cloud services.

The following slide illustrates the cloud disaster recovery options which include managed DRaaS, assisted DRaaS and self-service DRaaS.



The following slide illustrates the cloud disaster recovery options which include managed DRaaS, assisted DRaaS and self-service DRaaS.

cloud disaster recovery options for enterprise data protection

# IBM WATSON

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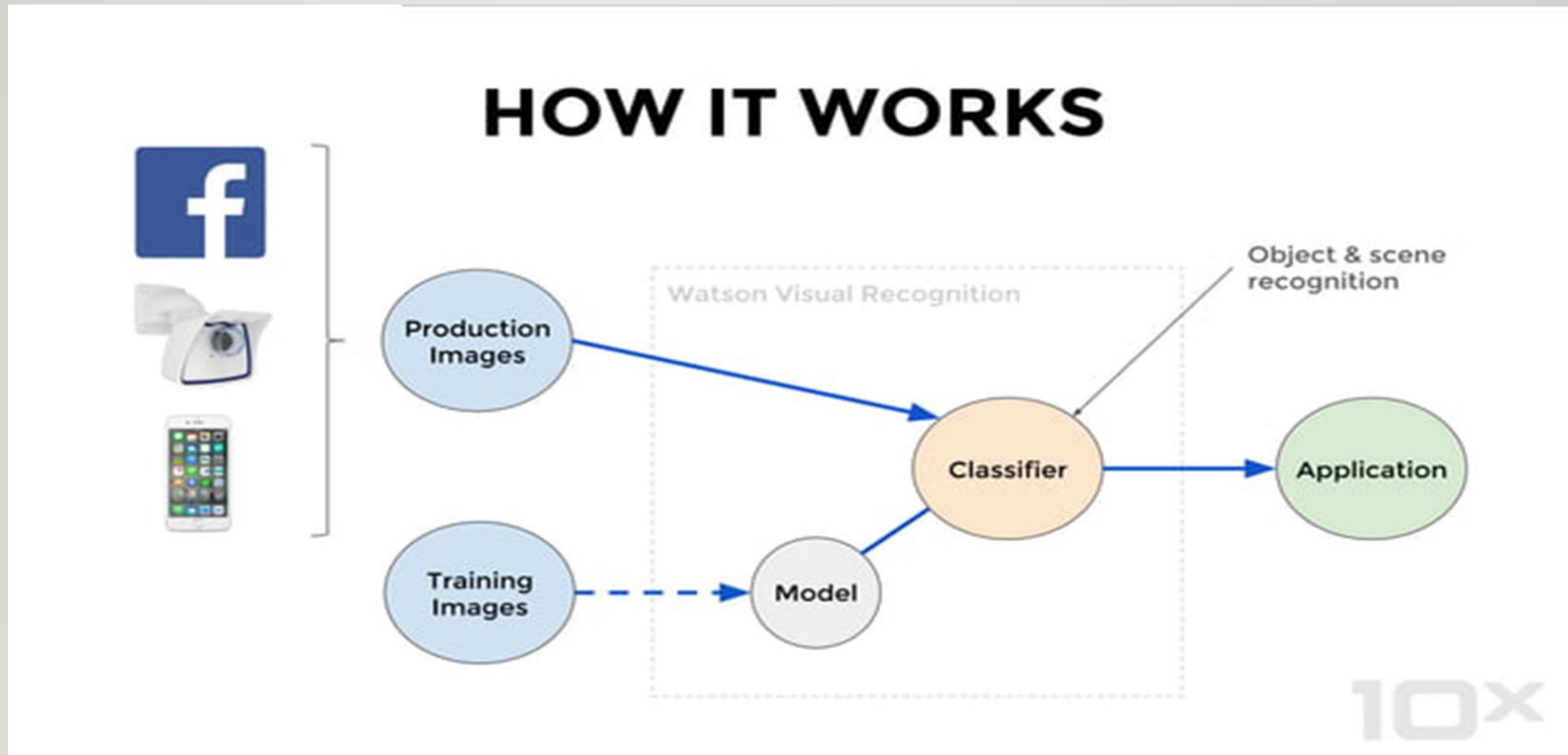
## IBM WATSON



10x



# HOW IT WORKS





# INNOVATIVE SOLUTION

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- ✓ Crop Disease Recognition: Identifies various crop diseases based on visual symptoms, allowing timely intervention.
- ✓ Pest Detection: Recognizes pests and insects on crops, enabling targeted pest management strategies.
- ✓ Plant Health Analysis: Monitors plant health indicators such as nutrient deficiencies, dehydration, and stress for proactive measures.
- ✓ User-Friendly Interface: Accessible through smartphones or drones with a simple and intuitive interface for farmers.
- ✓ Real-time alerts: Sends real-time alerts to farmers, providing instant notifications about potential issues in their crops.

# CONCLUSION

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Image recognition technology has transformed the way we process and analyze digital images and videos making it possible to identify objects, diagnose diseases and automate workflows accurately and efficiently.