Technology Modernization

ABOUT NES

o Serving Middle Tennessee since 1939

o One of eleven largest public utility

o Power distribution to over 420K covering 700 SQ miles

o Maintain 5,900 miles of distribution and transmission lines

Agenda

Survey

Results of the Survey

Setup Context

Jump Start

Lessons learned

Maturity

Speakers:

Vishal Marneni – Enterprise Architect
vmarneni@nespower.com
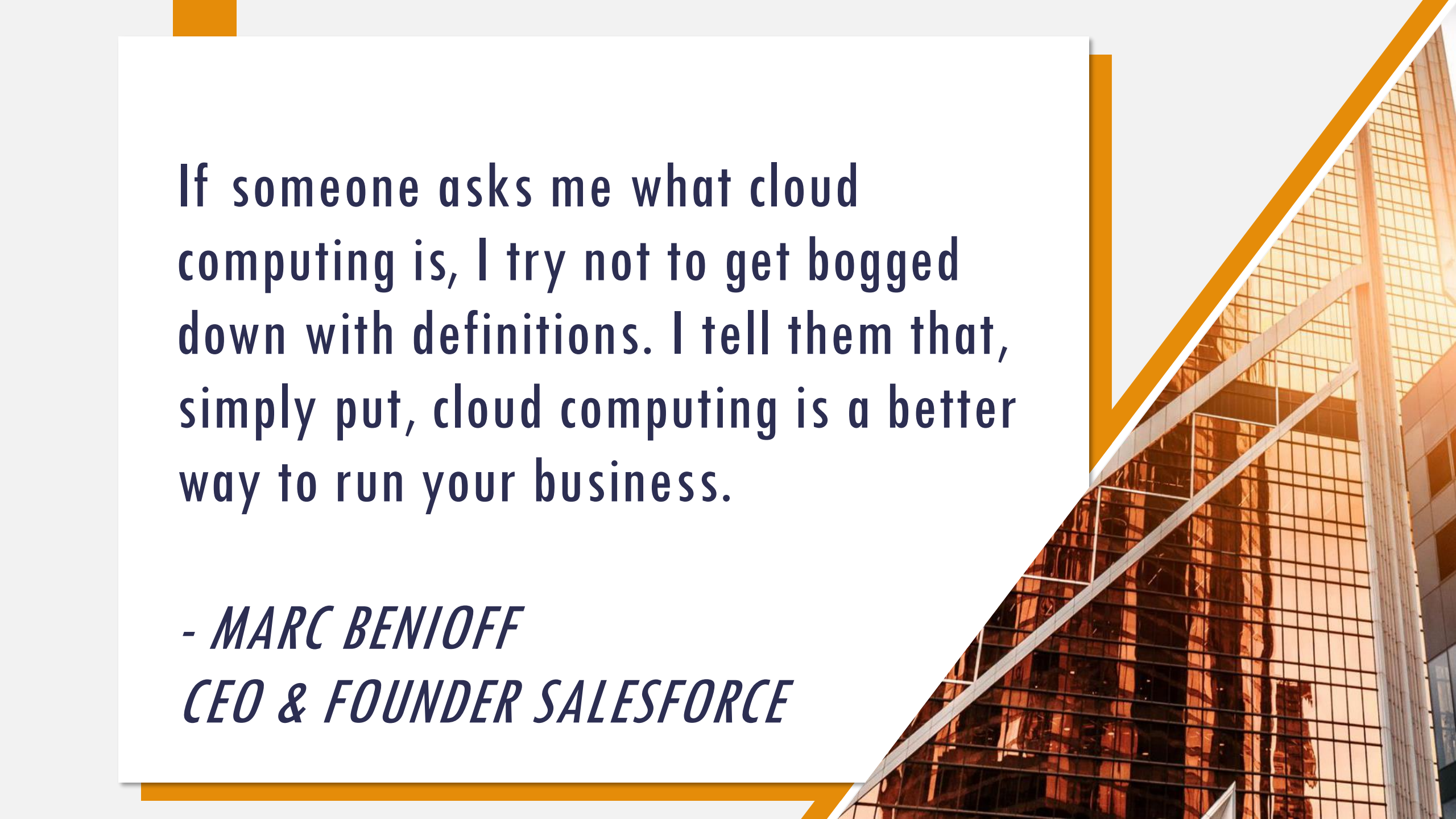
Chris Beegle – Director of Infrastructure
cbeegle@nespower.com

QUICK SURVEY

https://forms.office.com/r/V9D4GA5yaG

Build vs buy vs partner

Build

Buy

Partner

BUILD VS BUY

New Features
Less Downtime
Business enablement

New features faster
Reduce downtime
Business enablement

SaaS
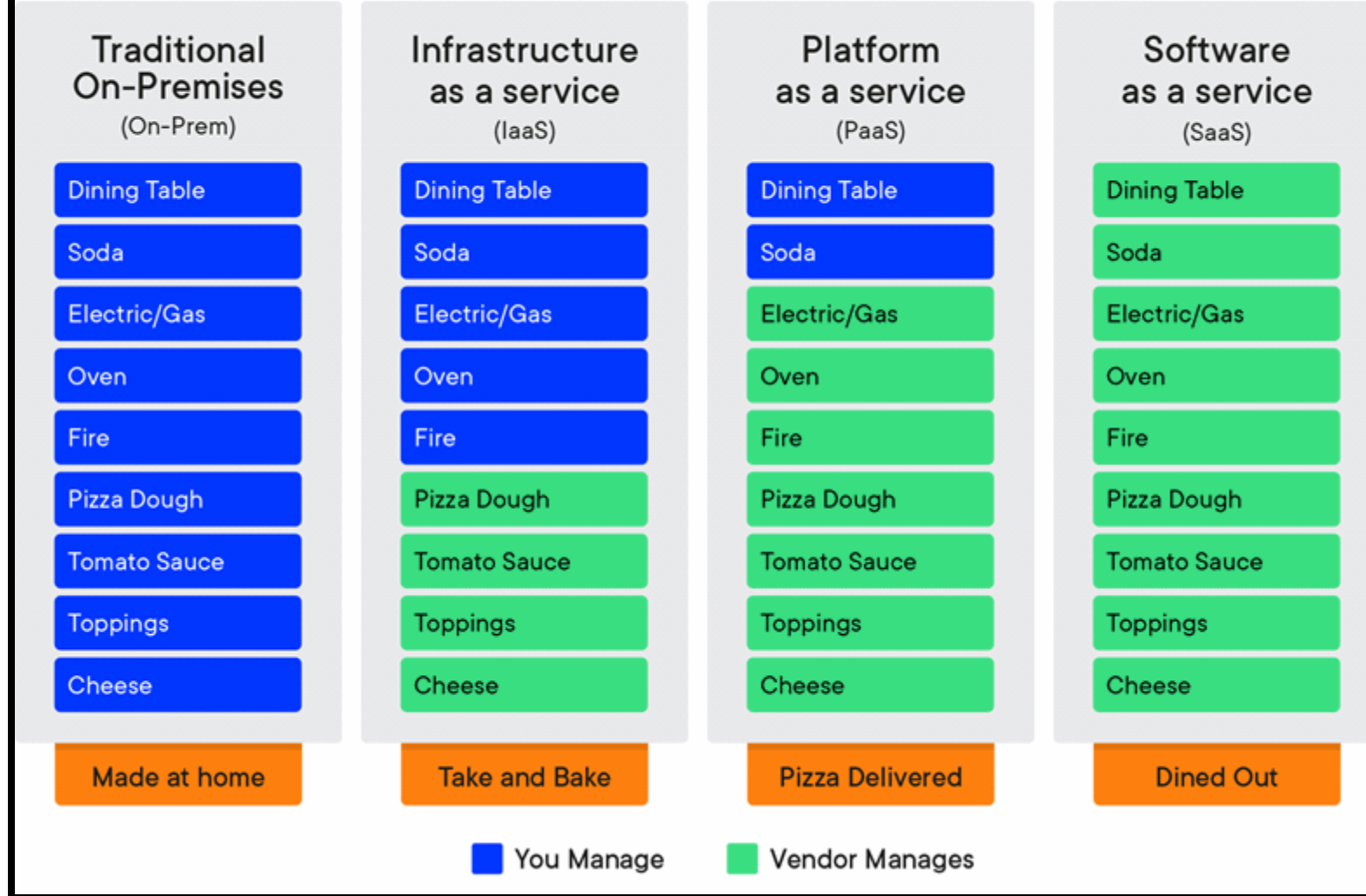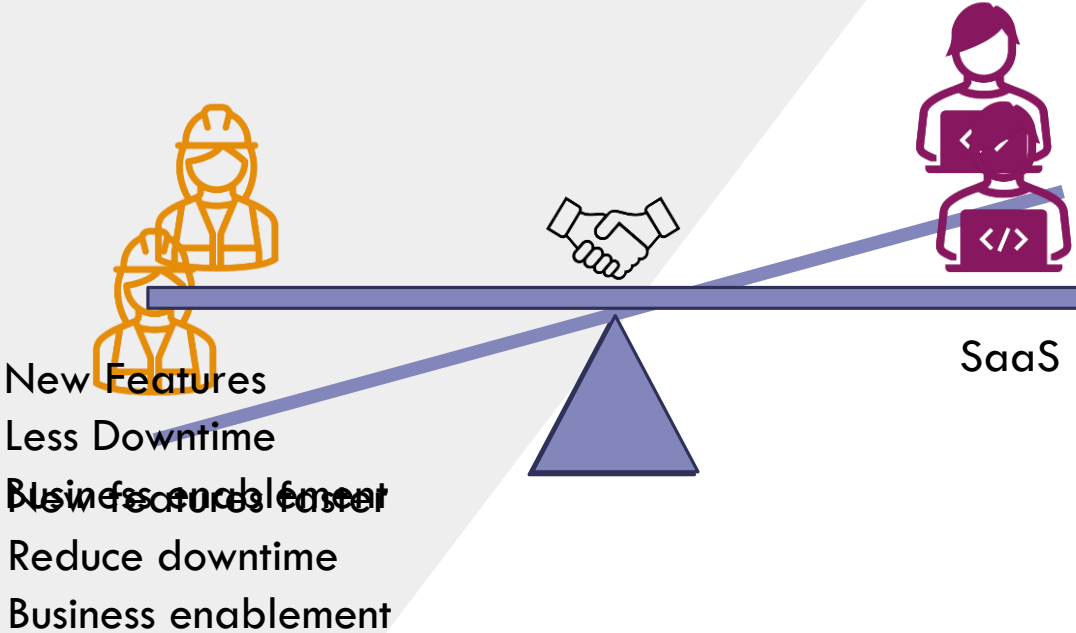
Form and Function

Movies

Music

JUMP START

2022 — 15 SaaS applications in NES' portfolio

2021 — 4 SaaS applications

Sept 2019 — First SaaS Implementation - Oracle HCM
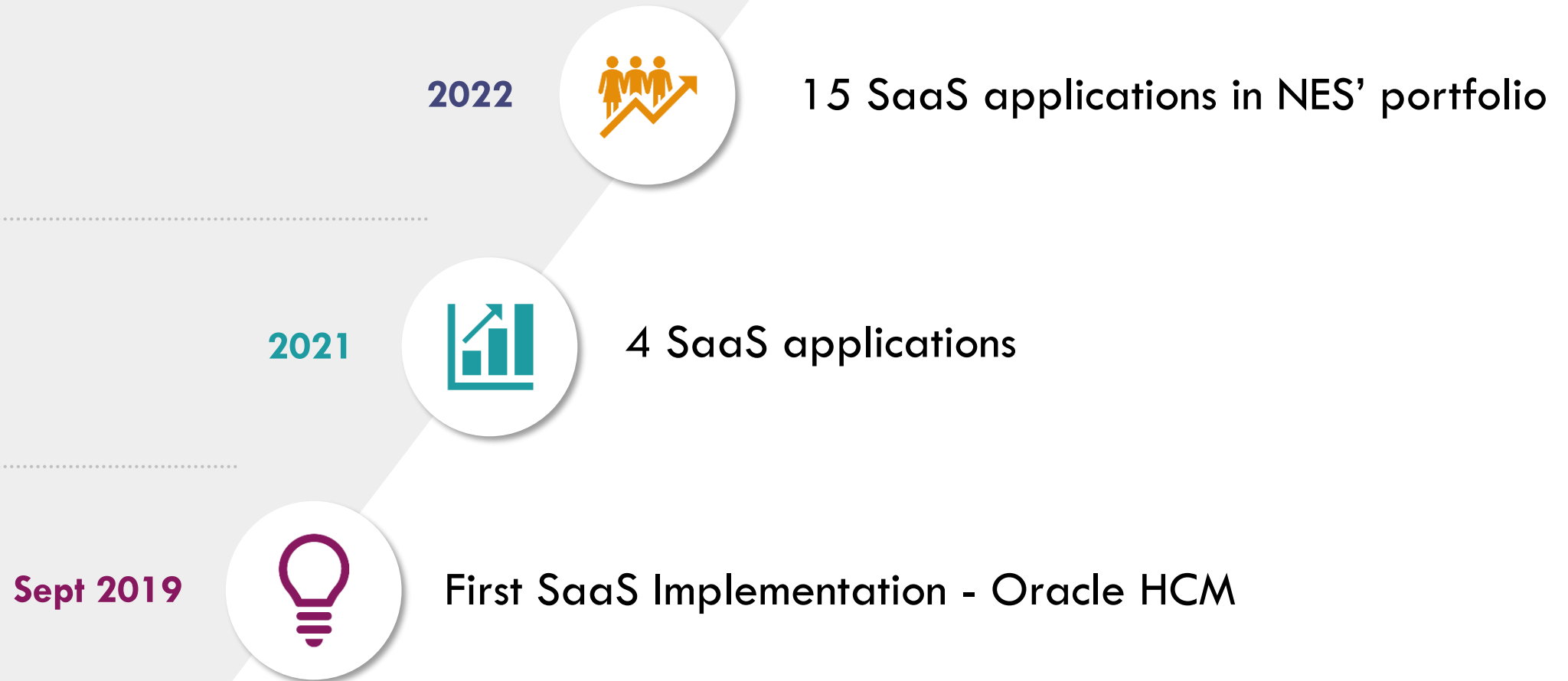
LESSONS LEARNED

- Significant change in business processes
- Forced upgrades meant more end-user testing
- Immediate attention

- Industry standardization
- Less customization and more configuration
- Reduced Total Cost of Ownership
- Vendors and partnerships matter

IT WAS SPRING OF 2020….

New Business Requirement

Bill Print Vendor → Bill PDFs → Storage

Customer Portal

Intranet Portal

Partner Websites

Your site is fruit jokes.

1:19   1:19

NEWER RULES OF ENGAGEMENT

New Business Requirement

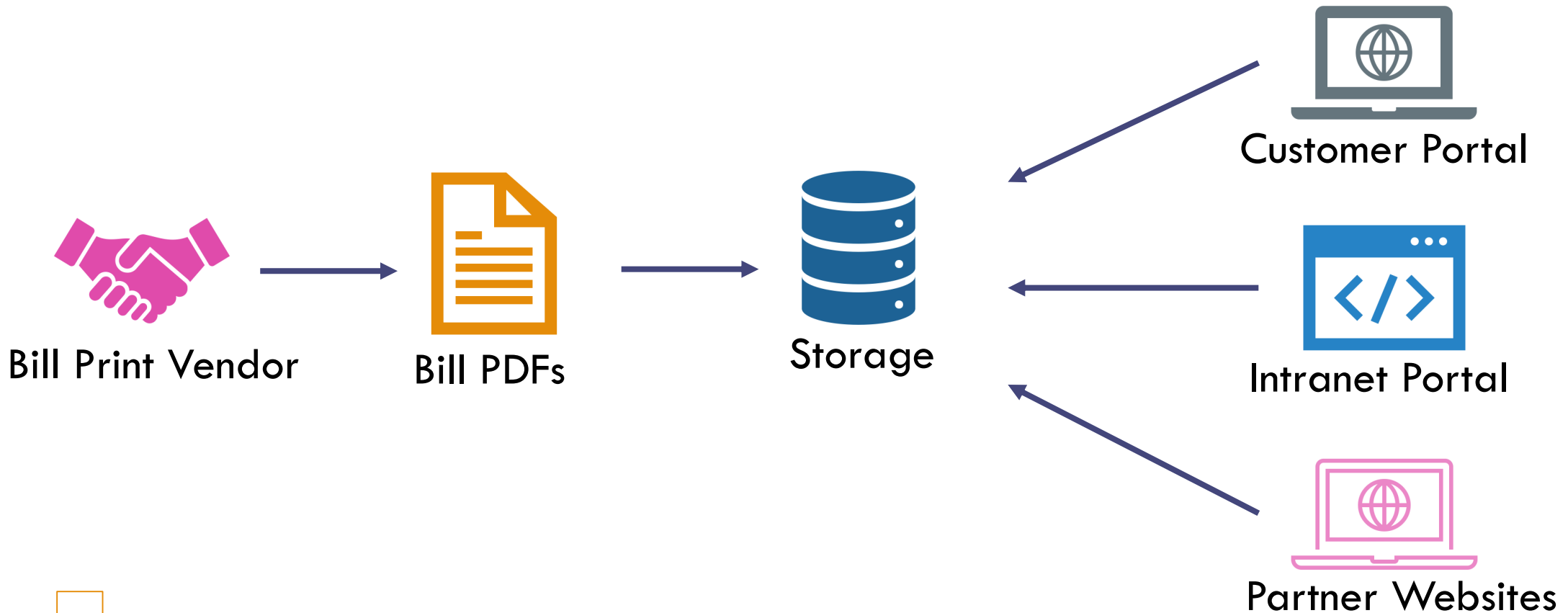# Microsoft Cloud Adoption Framework for Azure

Define Strategy

Understand motivations

Business outcomes

Business justification

Prioritize project

Plan

Digital estate

Initial organization alignment

Skills readiness plan

Cloud adoption plan

Ready

Azure setup guide

First landing zone

Expand the landing zone

Best practices

Adopt

Migrate
- Azure migration guide
- Migration scenarios
- Best practices
- Process improvements

Innovate
- Azure innovation guide
- Innovation scenarios
- Best practices
- Process improvements

Govern
Methodology • Benchmark
Initial best practice •
Governance maturity

Manage
Business commitments
Operations baseline •
Operations maturity

Azure Adoption Roadmap
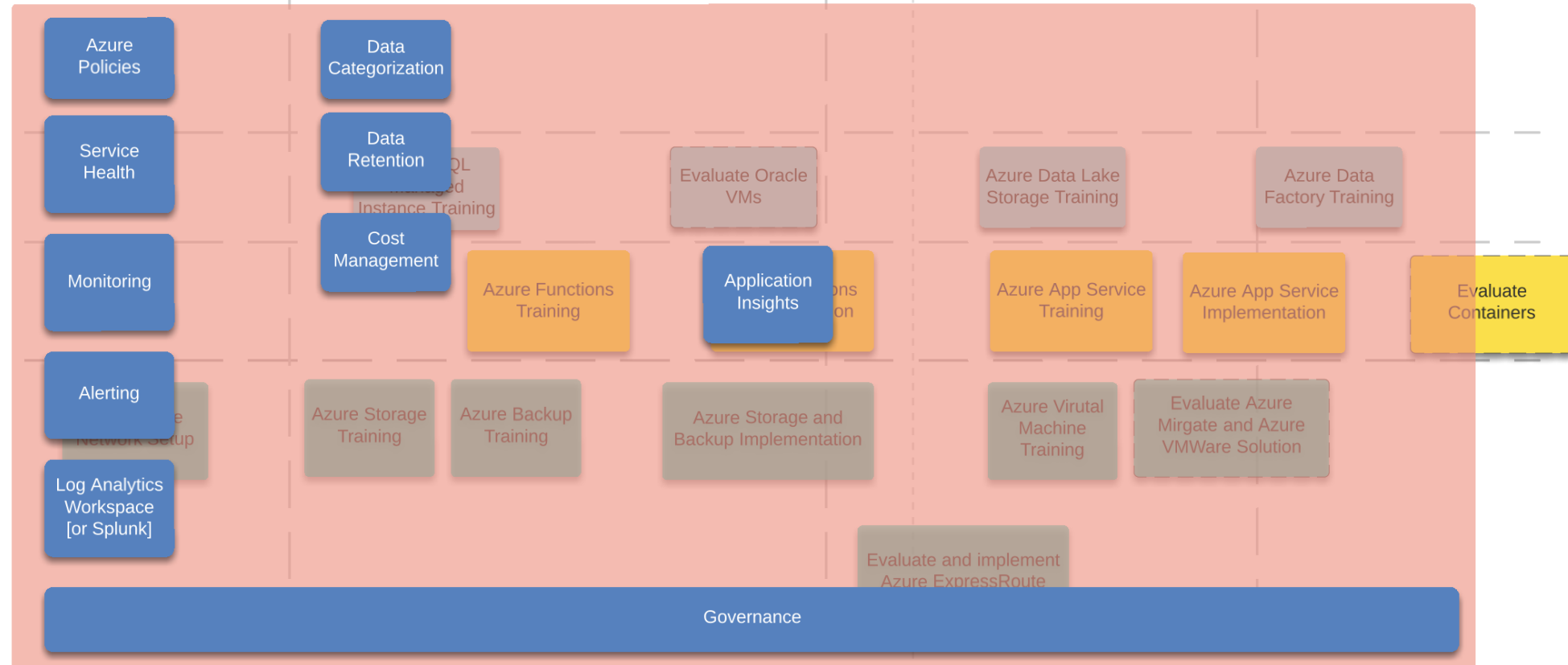
Q1, 2021   Q2, 2021   Q3, 2021

Security/Operations

Business

Data/Information

Applications

Infrastructure

Azure Policies

Service Health

Monitoring

Alerting

Log Analytics Workspace [or Splunk]

Data Categorization

Data Retention

Cost Management

SQL Managed Instance Training

Evaluate Oracle VMs

Azure Data Lake Storage Training

Azure Data Factory Training

Azure Functions Training

Application Insights

Azure App Service Training

Azure App Service Implementation

Evaluate Containers

Network Setup

Azure Storage Training

Azure Backup Training

Azure Storage and Backup Implementation

Azure Virutal Machine Training

Evaluate Azure Mirgate and Azure VMWare Solution

Evaluate and implement Azure ExpressRoute

Governance

CURRENT USE CASES

Storage and Serverless - Bill Storage and Presentment

Storage and Serverless - Call Center Recordings

Sentiment Analysis - Twitter

Form Recognition - Nashville Electric Automatic Transfer

File Processing - Meter Interval Read Aggregation

IN FLIGHT AND FUTURE CLOUD PROJECTS

Disaster Recovery Site 3

Going Green – Electric Vehicle Journey

Azure VDI and Windows 365

PBX with Microsoft Teams

Azure Lakehouse

QUESTIONS