

# TARGETING 100 MILLION USERS:

## Continuous Improvement at TODO1

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# OUR BUSINESS MODEL

TODO 1



CLEAR FOCUS ON LATIN AMERICA'S COMMUNITIES, BOTH LOCALLY AND INTERNATIONALLY.



CONSISTENT INVESTMENT ON WORLD-CLASS-TECHNOLOGY PLATFORM.



LONG-TERM STRATEGIC CONSULTING APPROACH WITH LARGE BANKS.



SHARED-RISK BUSINESS MODEL LINKED TO SUCCESSFUL RESULTS FOR CUSTOMERS.

# WHERE WE ARE

OUR PRESENCE IN LATIN AMERICA IS FOCUSED ON BEING THE **STRATEGIC ALLY** OF ONLY A FEW FINANCIAL INSTITUTIONS PER COUNTRY.

NEW MARKETS



# TODO1 – PRODUCTS AND SERVICES



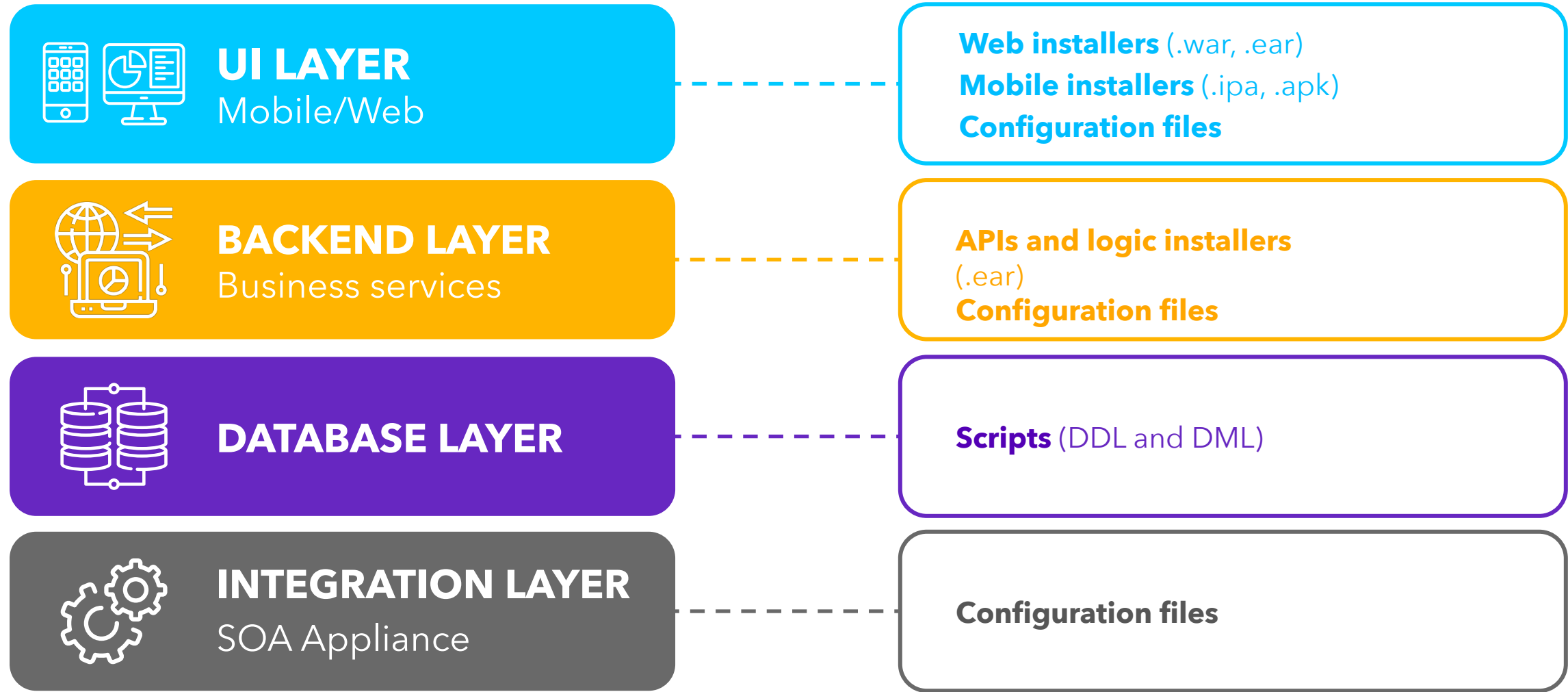
**On-line  
Banking**

**Mobile  
Banking**

**PFM/BFM**  
(Personal and Business  
Finance Management)

**We work closely with our Bank Clients as business partners on the adoption of our Solutions, so that their success also becomes our success.**

# APPLICATION ARCHITECTURE



# BUSINESS GOALS



3-5 YEARS

CURRENTLY  
~15 M  
USERS

# BUSINESS REQUIREMENTS

1

INCREASE RELEASE  
CADENCE by 4X

SIMPLY, NOT  
POSSIBLE WITH A  
MANUAL PROCESS!

2

BETTER SERVICE QUALITY

Reduce human errors in manual  
process.

SERVICE  
AVAILABILITY

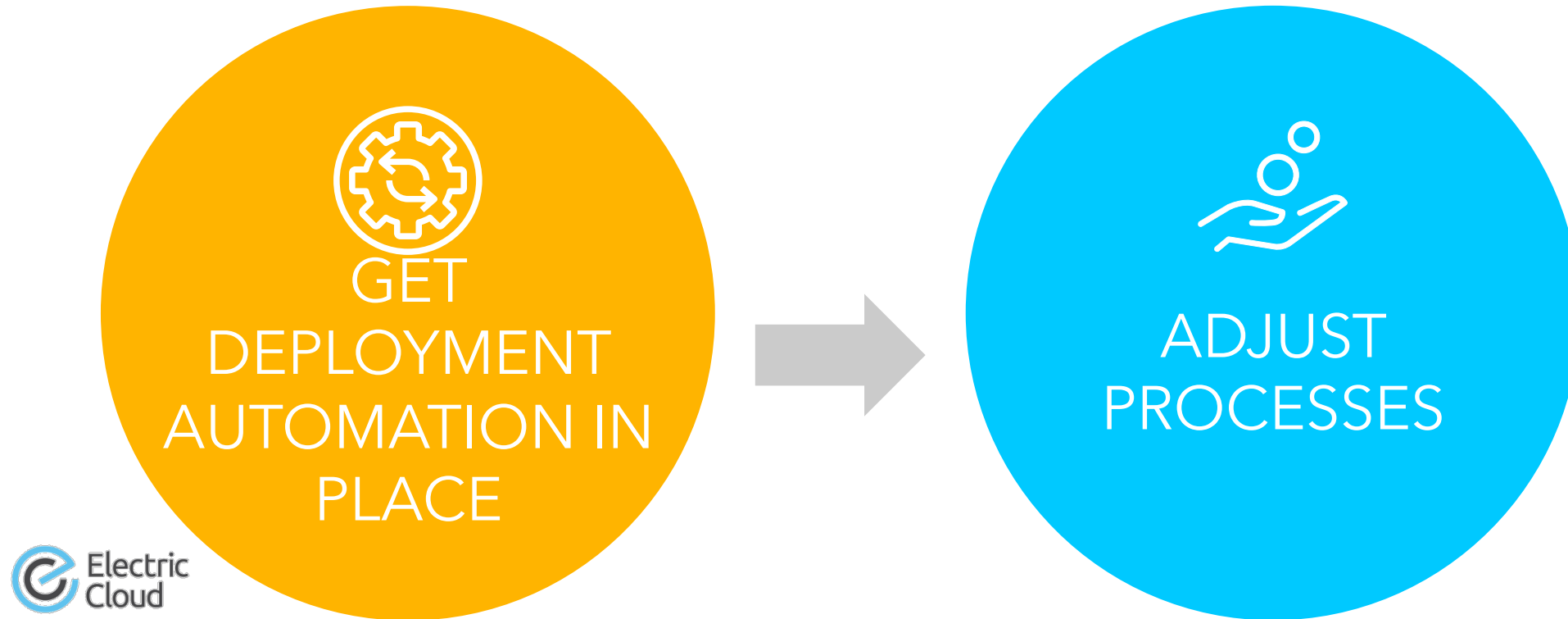
SERVICE  
RELIABILITY

CREDIBILITY



# FIRST STEPS

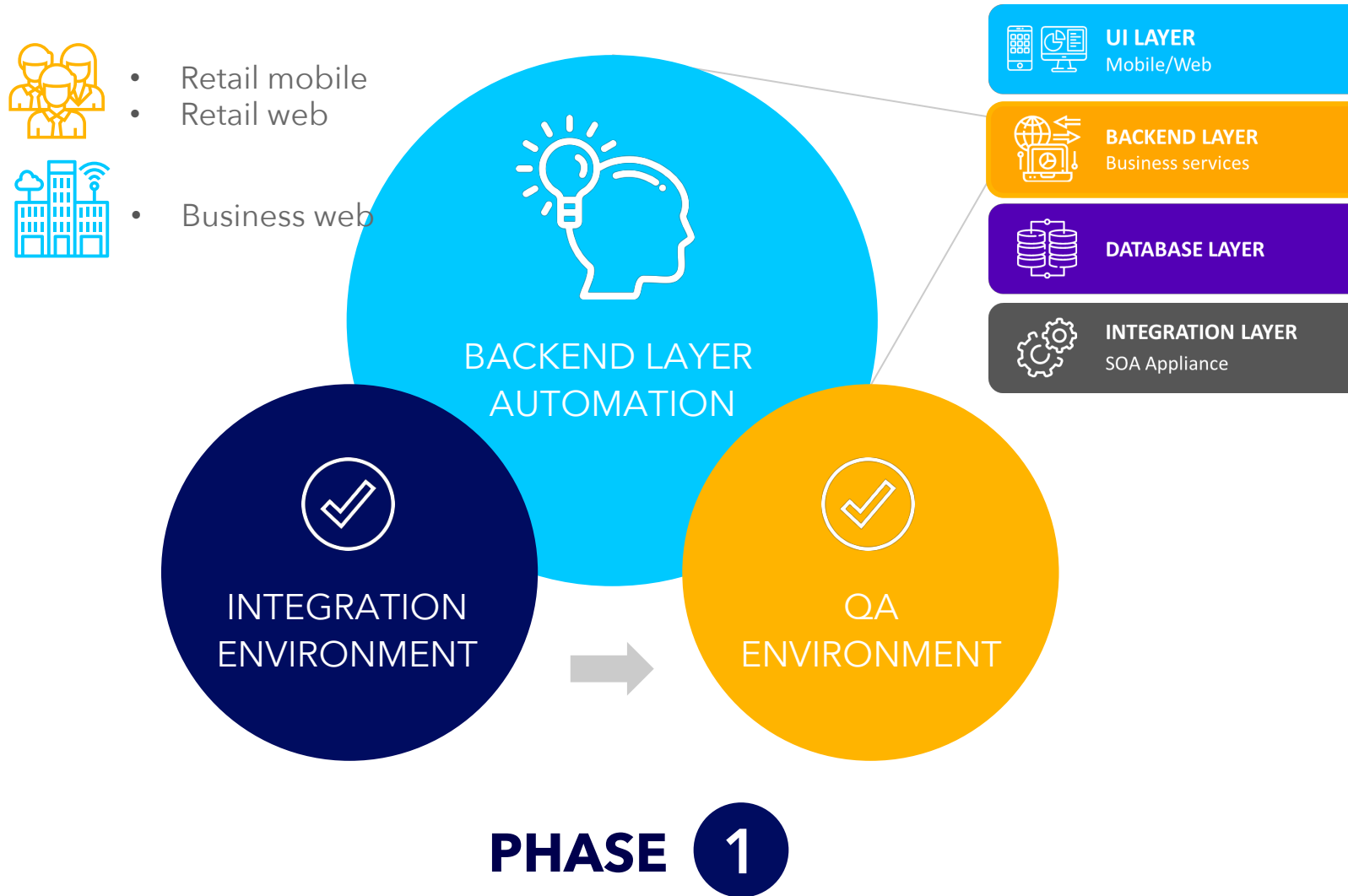
TODO 1



# WHAT WE DID

TODO 1

## INITIAL PLAN



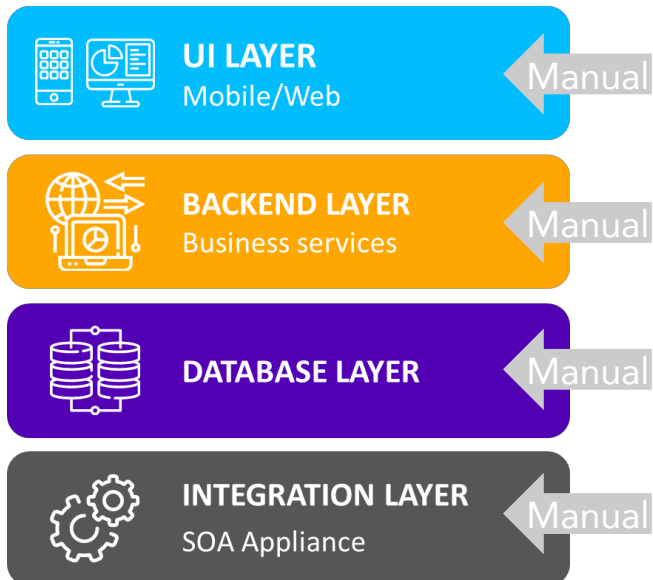
**PHASE 2**

# DEPLOYMENT PROCESS BEFORE AUTOMATION

TODO 1

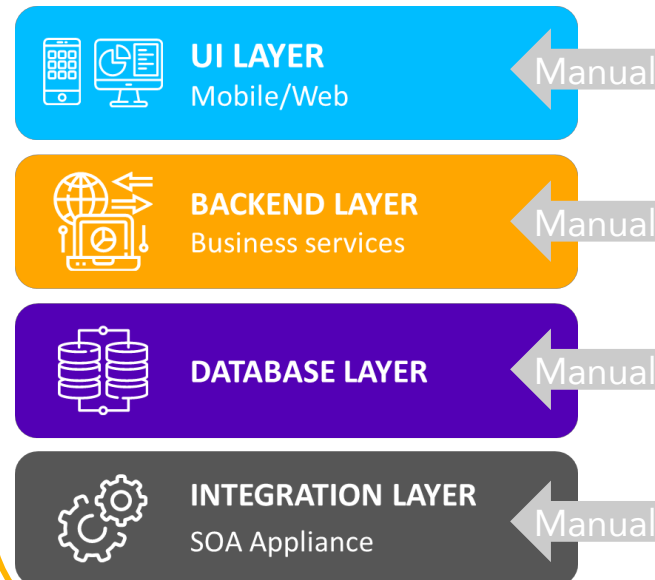
## DEVELOPMENT TEAM

### INTEGRATION ENV

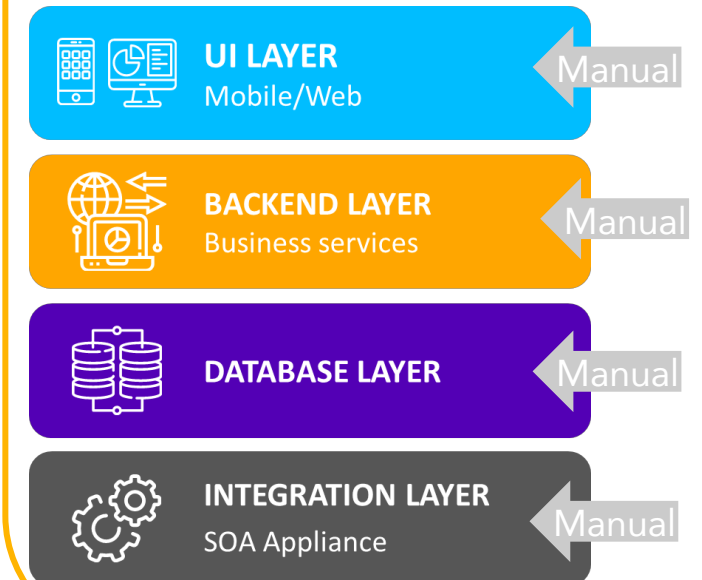


## OPERATIONS TEAM

### QA ENV



### PROD ENV

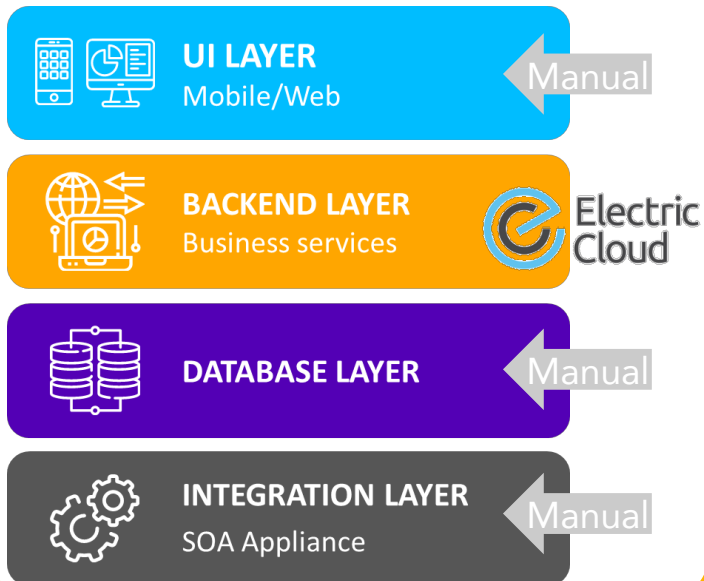


# DEPLOYMENT PROCESS AFTER AUTOMATION

TODO 1

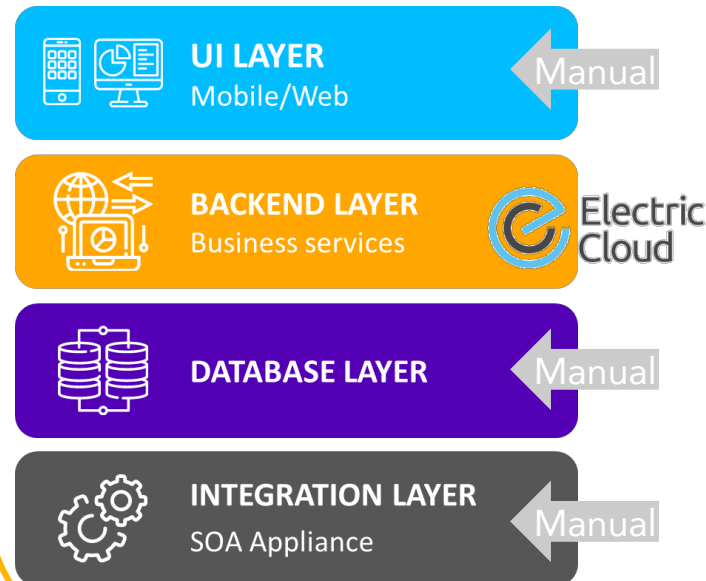
## DEVELOPMENT TEAM

### INTEGRATION ENV

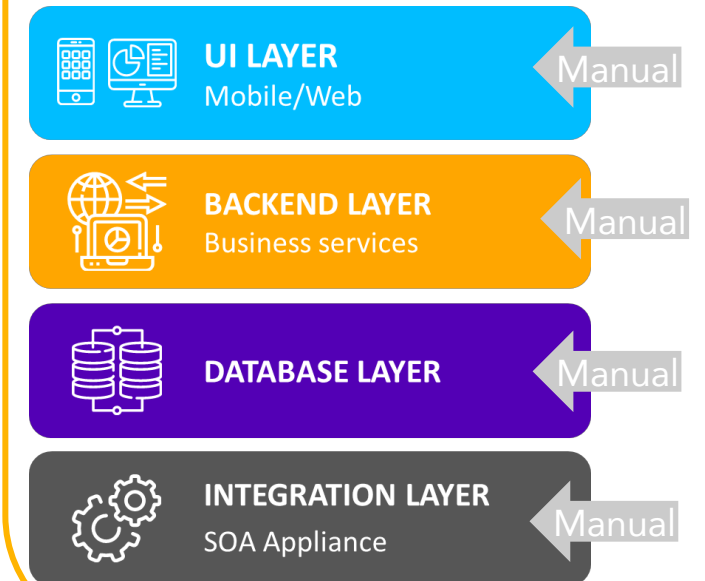


## OPERATIONS TEAM

### QA ENV



### PROD ENV



# INITIAL RESULTS



**OPTIMIZED DEPLOYMENT  
PROCESS**

**INTEGRATION  
DEPLOYMENT**



**QA  
DEPLOYMENT**

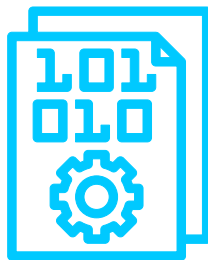
**WITHOUT OPERATIONS TEAM!**



**COMPANY-WIDE  
COMMITMENT!**

**MANAGEMENT  
SPONSORSHIP**

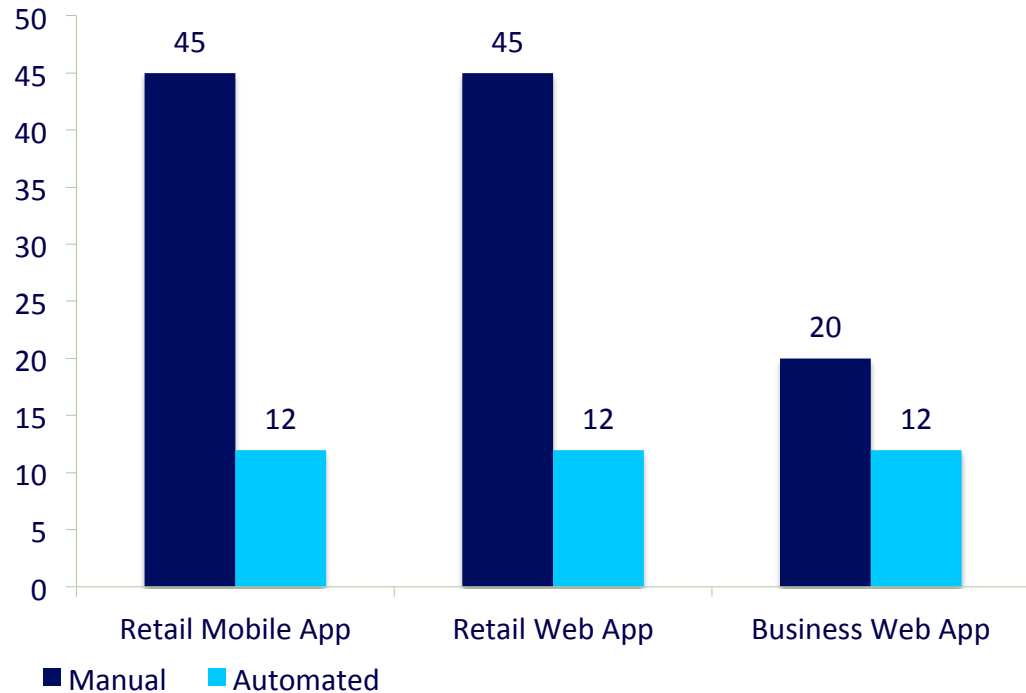
# COMPLIANCE AND AUDITING



USER AUDITING	EXECUTION TRACKING	NETWORK SEGMENTATION
<ul style="list-style-type: none"><li>Who?</li><li>What?</li><li>When?</li></ul> 	Track changes between executions. 	<ul style="list-style-type: none"><li>Entry Gate Rules</li><li>Team → Own environment</li></ul>
TEAMS	PROCESS	INFRASTRUCTURE

# INTEGRATION ENVIRONMENT IMPROVEMENTS

Deployment time [mins]



**48**

**192**

**108**

Deployments/month

Savings for Development Team



**40-73%**

LESS TIME PER  
DEPLOYMENT

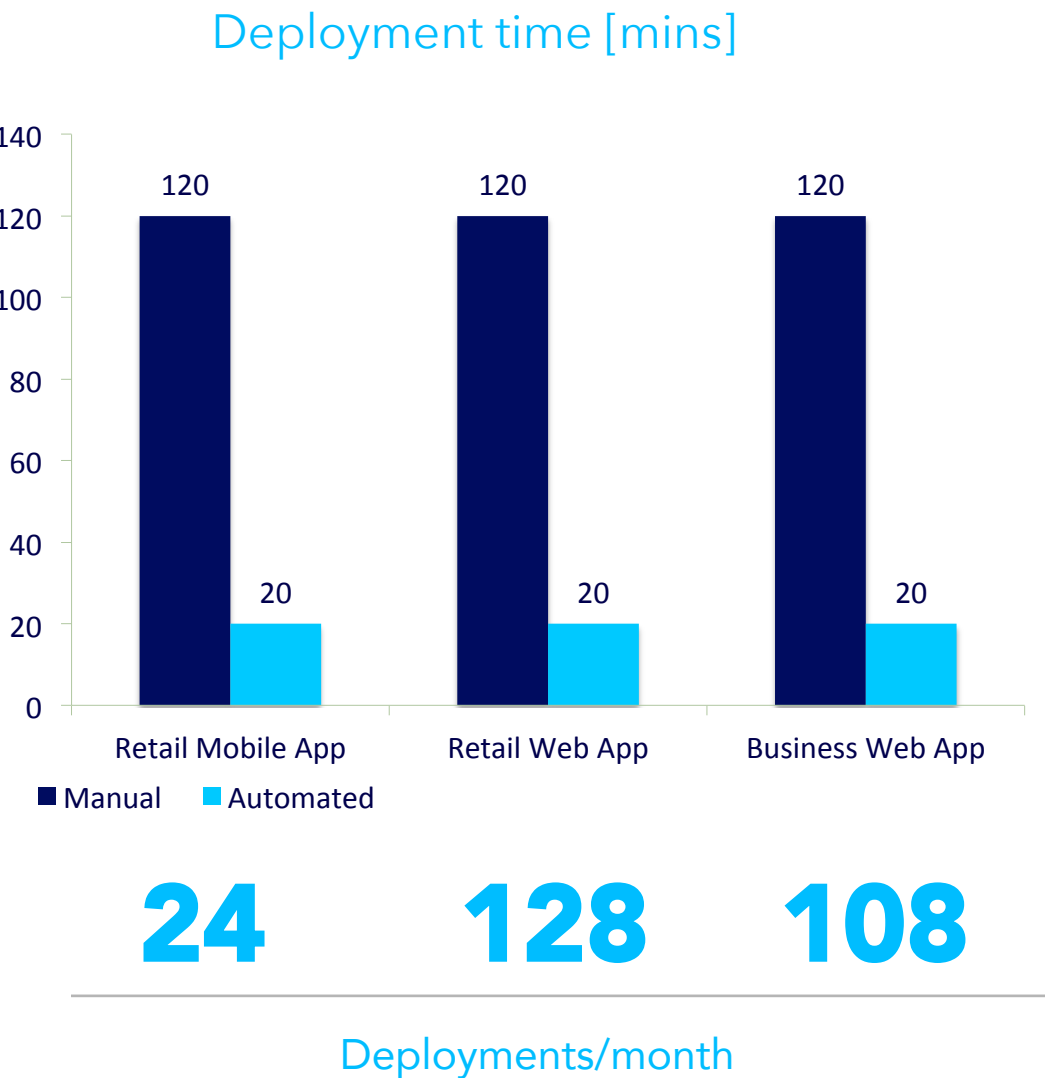


**146**

LESS HOURS OF  
DEPLOYMENT PER  
MONTH

This is almost 4 weeks of work of one Developer!

# QA ENVIRONMENT IMPROVEMENTS



## Savings for Operations Team



**83%**  
LESS TIME PER  
DEPLOYMENT



**433**  
LESS HOURS OF  
DEPLOYMENT PER  
MONTH

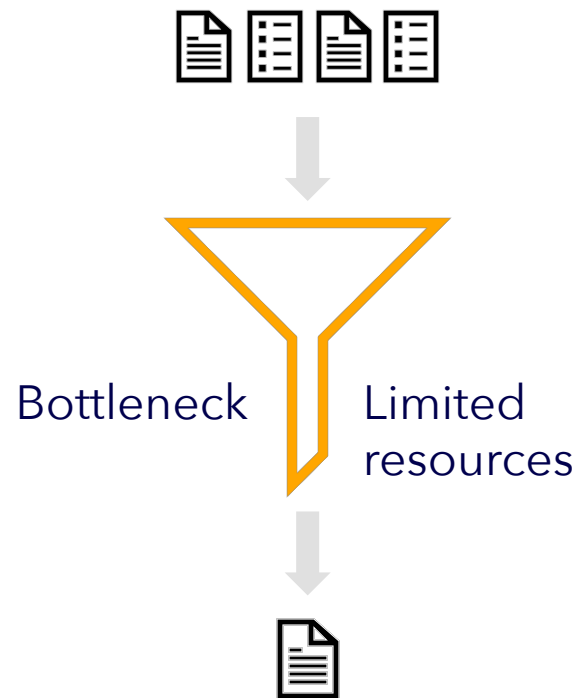
This is almost 3 Operation Team members  
working full time per month!



# NEW CHALLENGES

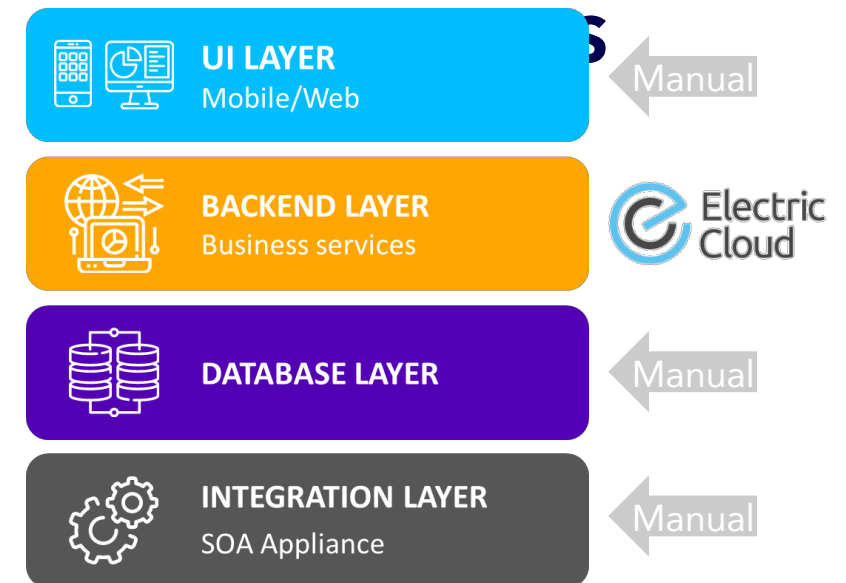
1

## TOO FAST FOR QA!



## AUTOMATE SINGLE LAYER

### MULTIPLE



## 1

### CHANGE OF STRATEGY



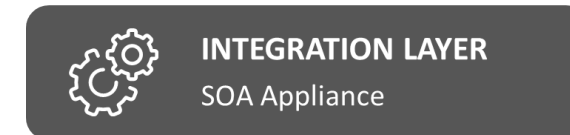
- One application
- All layers
- All environments



The goal:

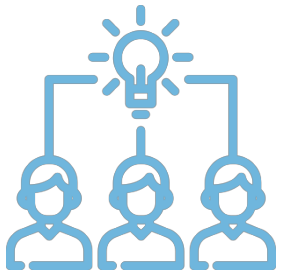
Operations → just **one click** to approve.

### AUTOMATE ALL LAYERS SINGLE APPLICATION



## 2

### RESISTANCE FROM OTHER TEAMS ADJUSTING TO THE NEW PROCESS



#### Leadership:

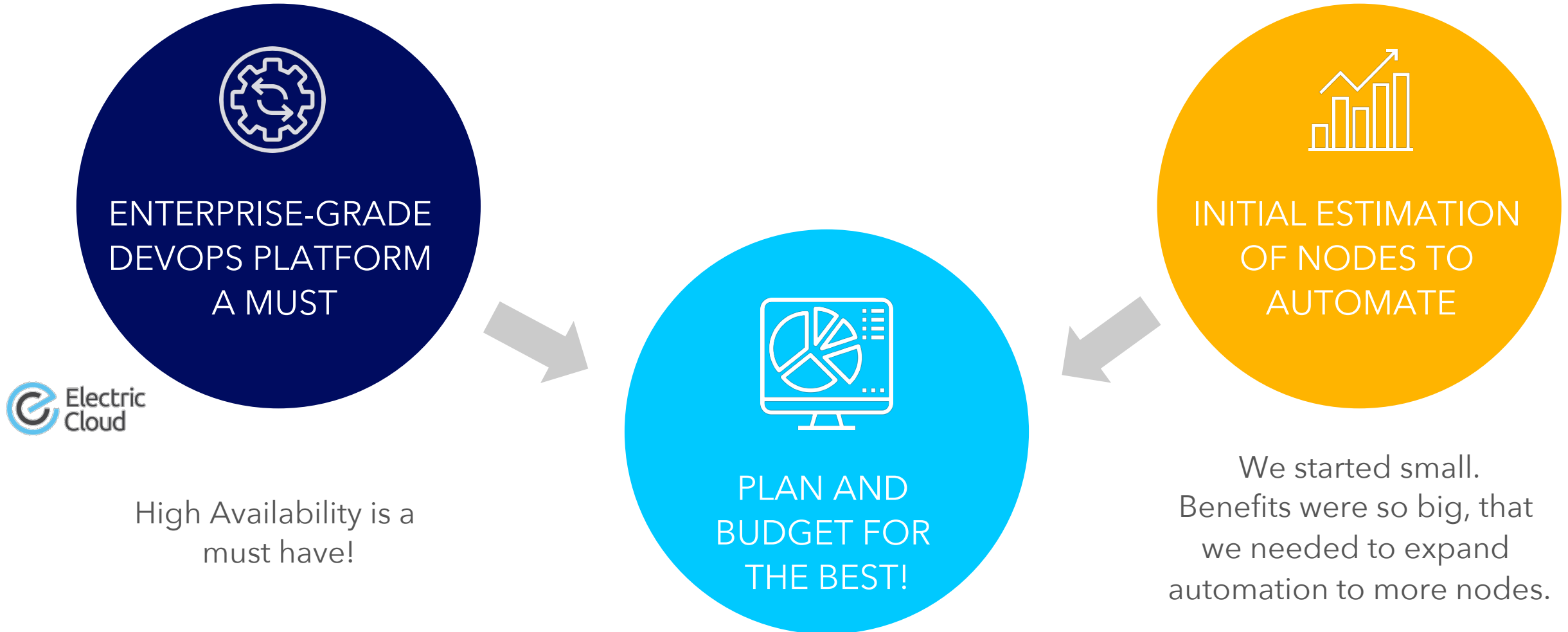
- Presentations
- Documentation
- Demos
- Coaching



Once they started, they really loved it!

# LESSONS LEARNED

TODO 1



# WHERE WE WANT TO GO?

## ACHIEVE CONTINUOUS DELIVERY NIRVANA!



# 100

MILLIONS USERS

Currently 15 million users.  
Goal 3-5 years.



# ALL

APPLICATIONS

Include all of our applications.



# QA

FUNCTIONAL TESTING

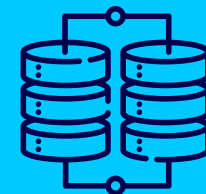
Increase integration with Functional Testing Suites.



# APPS

MOBILE APPS DEVELOPMENT

Mobile applications deployment and delivery.



# DML

DATABASE AUTOMATION

Currently only DDL.  
Add database automation for DML.



# THANK YOU!

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