

# OpenShift vs. Rancher

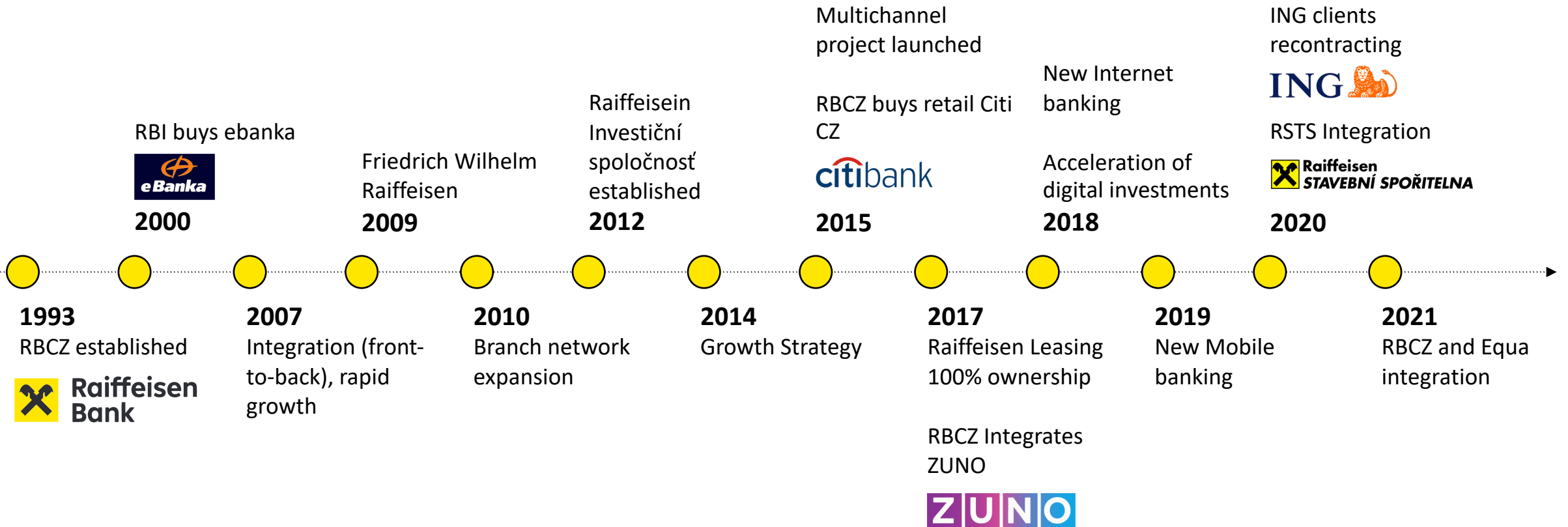
## How Raiffeisen Bank Czech Republic Made the Strategic Choice

Petr Štengl – Head of IT Operations

9.10.2024 - Red Hat Summit Connect 2024

# Raiffeisen Bank Czech Republic has a history of mergers and acquisitions

Our latest is what we'll be talking about today



And due to the decisions, we made, we support experienced strong growth in customer based and in digital channels



Low CIR

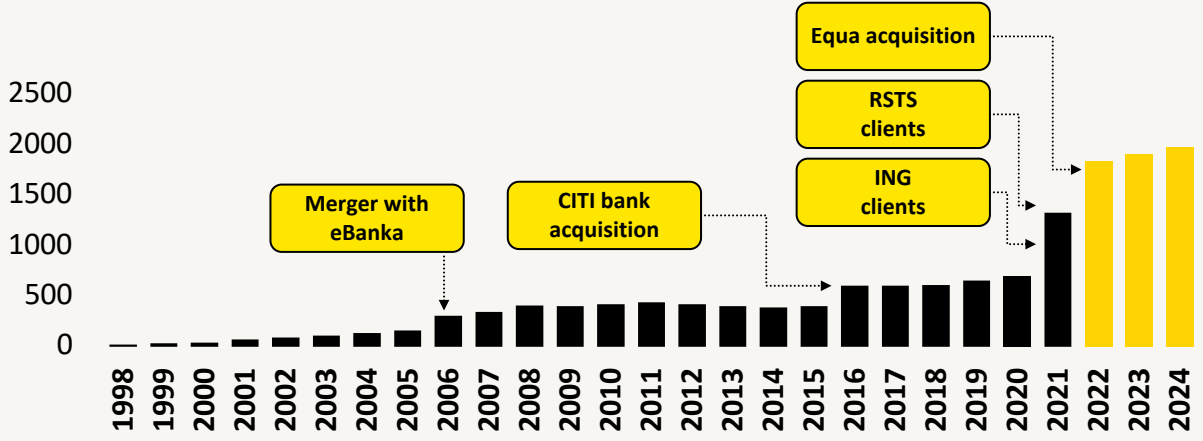


Synergies

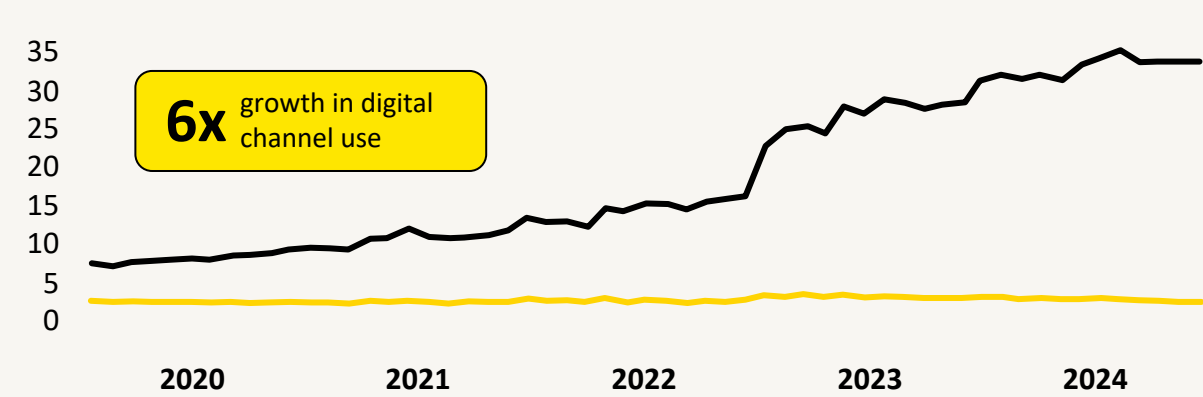


Economies of scale

# customers (in thousands)



# customers logged into mobile and internet banking (in millions)



Equa would bring almost 50% more customers.

So, we needed to decide which direction to migrate

**1.1 million**

Raiffeisen bank

**0.5 million**

Equa bank



Raiffeisen Bank

Equa bank

**2,300** PODs  
FOR APPLICATIONS

**172** PODs  
ORIGINALLY

On-Premise

{	<b>3x</b>	<b>3x</b>	<b>84x</b>
	Master	Infra	Worker

Cloud - AWS

{	<b>3x</b>	<b>3x</b>	<b>12x</b>
	Master	Infra	Worker

Key banking applications powered by Rancher (open source)

# But before we even started the migration, we had to prepare the RB environment for scaling and meeting our growth

## 01

### Cost avoidance

Cost avoidance of expensive IBM WMB licenses due to expected double BAU load after migration

## 02

### Integration

Implement the most frequent integration WMB services to cheaper microservice (IMS) technology powered by OpenShift

## 03

### Impact

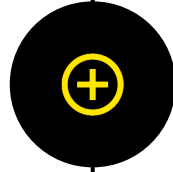
WMB vs. IMS ratio 80% / 20% before program started, expected 20% / 80% after execution



**...And then we evaluated 3 migration scenarios**

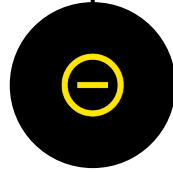
# Migration from RB OCP to Existing Equa K8s/Rancher Environments

- › Analyze and modify existing environments to meet operational standards from development to production.
- › Implement user authentication via Kerberos and LDAP group synchronization.
- › Revise and deploy a logging stack and monitoring system.
- › Total migration effort 300MDs



## Pros

- › Utilizes existing infrastructure.
- › Potentially lower initial setup costs.
- › Skilled and experienced technical staff



## Cons

- › High complexity in ensuring compatibility and stability
- › Significant manual effort required for ongoing maintenance and updates
- › Implementation new CI/CD pipelines compatible with RBCZ ones

# Installation of New K8s/Rancher Environment and Migration from RB OCP

we initially thought this would be the best option

- › Design and build a new K8s environment tailored to meet RB's needs.
- › Implement necessary components for an operational and security RB standard.
- › Total migration effort 450MDs



## Pros

- › Custom-built environment tailored to specific needs
- › Potential for a more streamlined and efficient setup
- › Supporting the Open Source First strategy

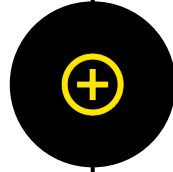


## Cons

- › Higher initial setup costs
- › Requires significant effort to reach operational maturity

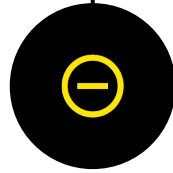
# Migration from K8s/Rancher to Existing RB OpenShift Environments

- › Leverage existing RB OpenShift environments designed to meet RB's infrastructure, security and resilience needs.
- › Utilize built-in components and standardized processes.
- › Total migration effort 100MDs



## Pros

- › Simplified migration process
- › Leverages existing, mature RB OpenShift infrastructure
- › Lower overall effort and cost



## Cons

- › Slightly limited flexibility compared to custom-built environments



**Which ended up being our chosen path**



# Not only was the migration to OpenShift the best option, but it also set us up for future success

Type of migration	TCO 3 years	TCO 5 years
Migration to Existing K8s/Rancher	<b>124,7%</b>	<b>115,3%</b>
New K8s/Rancher Environment	<b>135%</b>	<b>121,5%</b>
<b>Migration to Existing RB OpenShift</b>	<b>100%</b>	<b>100%</b>

## OpenShift



is a solution that significantly simplifies daily operations and has fully automated maintenance



**Comprehensive Enterprise Features**



**Vendor Support and Stability**



**Simplified Maintenance and Upgrades**

And all the preparation was

**WORTH IT**

## BUSINESS RESULTS



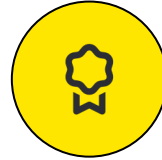
**33%**

Increased number of clients by  
33% YoY



**>15%**

Above 15% market share in  
Loans



**#4**

Became #4 player in the Czech  
Republic by clients, retail loans  
and deposits

**AVAILABILITY OF DIGITAL CHANNELS > 99,9%**

VISA



Nejlepší  
banka 2023



VISA | Nejlepší  
banka 2022

Klientsky  
nejprívětivější  
banka  
2022



**Thank you**  
for listening

