



**CINDY PAYNE**LEADER OF TECH CONSULTING GROUP,
NATIONWIDE



JIM GRAFMEYER
DIGITAL SOLUTIONS ARCHITECT,
NATIONWIDE FINANCIAL



### NATIONWIDE: PROTECTING WHAT MATTERS MOST

**MILLION POLICIES** 

\$209.8 **BILLION IN ASSETS** 

PAID IN CLAIMS AND BENEFITS BILLION IN 2016

> **MILLION** CONTRIBUTED TO NONPROFITS AND COMMUNITIES **SINCE 2000**















of serving our members











50 PRIMARY TECHNOLOGIES

>2500APPLICATIONS

#51: COMPUTERWORLD BEST PLACES TO WORK IN IT

5100 IT ASSOCIATES

23

**BUSINESS UNITS** 

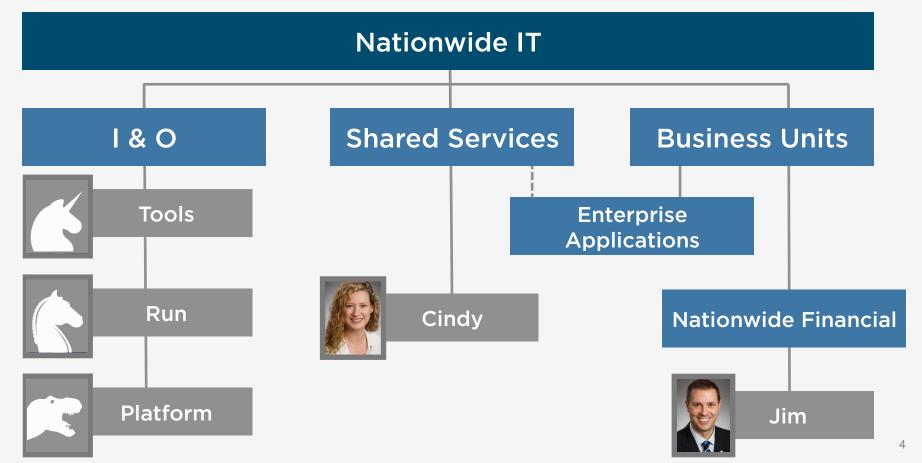
BALANCE
OF
INNOVATION
AND
DISCIPLINE

>260

DEVELOPERS & TESTERS



# ORGANIZATIONAL STRUCTURE





# 10 YEARS AGO, WE SET OUT TO BUILD A **GLOBALLY COMPETITIVE** IN-HOUSE SOFTWARE DEVELOPMENT CAPABILITY



How we deliver software with high quality

How we deliver with speed, efficiency, and low risk

How we manage IT at enterprise scale

How we provide industry validation of our progress



Organize Experiment

#### **Motivate**

**Simplify** 

DevOps house

Methodology

Deployment tooling

**Practices** 

## Senior leadership sponsorship

IT Delivery Model transformation

- Software development model
- Lean management
- Suppliers

**Model lines**: speed, practitioner led

Business planning: Minimum Marketable Product (MMP), single embedded owner

Infrastructure engineering

**Developer experience** 

**DevOps Handbook** 

Tool adoption

Continuous improvement

**Self-service** 

Immersive pairing

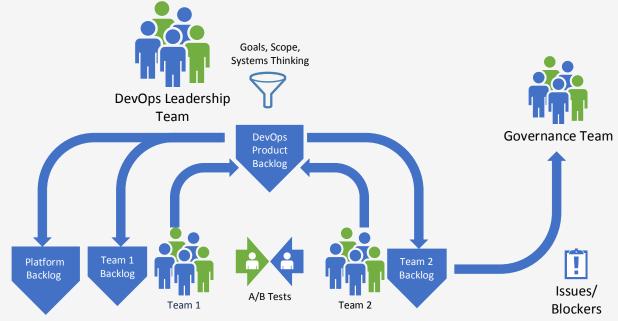
Availability (SRE)

#### Pipeline as a product

- Architecture
- Ownership
- Prioritization
- Funding model

2015 2016 2017 2018









### **EPICS**

**Version Control Everything** 

Automated Testing (unit, integration, performance)

Continuous Integration to the Trunk

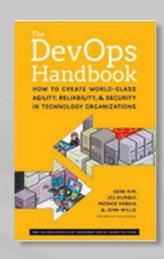
**Automated Infrastructure** 

Continuous Delivery into Production-like Environments

**Automate Low-Risk Releases** 

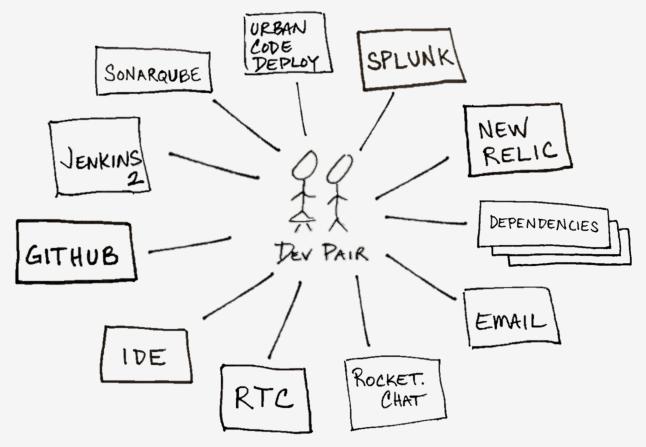
**Architect for Low-Risk Releases** 

**Monitor Everything** 

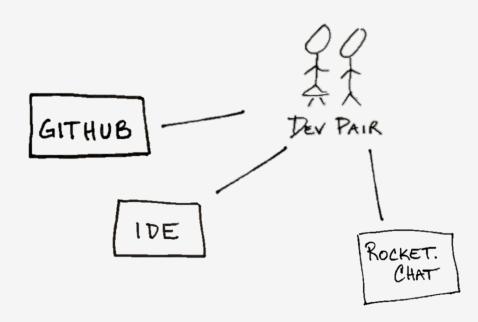




# DEVELOPER EXPERIENCE GREAT TOOLS, LOTS OF CONTEXT SWITCHING















#### BASE CAMP

- Agile adoption first
- Adopt tools
- •Start DevOps Handbook book club
- Develop continuous improvement (CI) mindset



- · Automate code and data deployments
- · Implement dark launching
- ·Release code when ready/certified
- · Push pipeline health issues to Rocket.Chat
- · Minimize context switching using chatbots
- Polyskilling
- Decentralize control of performance testing, security testing, and deployment
- Automate production validation and feedback
- Map value stream and understand constraints
- ·Use lead time metrics to drive CI



#### SUMMIT

- Daily releases
- Implement ChatOps
- Business partners create MMPs and act on feedback metrics
- ·Single piece flow





· Tech Consulting



· DevOps Leaders

#### COMING SOON



· Immersive Pairing



· DevOps Dojo



· Delivery Pipeline Support



# THE NORTH STAR – LEAD TIME

Introduced lead time metrics for all 200 development teams

Empower teams to pick their course guided by lead time

Drive towards daily, zero downtime deployments





# THE MAP AND THE EQUIPMENT

Tools enable practices

Tools alone have benefits

Handbook is your map



#### **SHERPAs**



• Tech Consulting



• Build Capability SMEs

#### COMING SOON



• Immersive Pairing



Monthly DevOps Dojo



• Delivery Pipeline Support

### SUPPORT MODEL

Development teams must make their own journey

Tech Consulting and DevOps leaders are expert climbers

Cross-pollinate

Support the Delivery Pipeline as a single product





### **HURRICANE HARVEY**

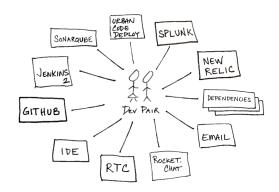
High volume of flooded cars

Business ask: optimize online claims process

IT response: collaborative design and implementation in 8 hours

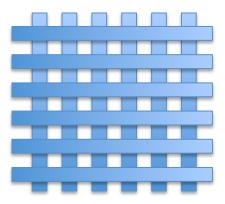
**Results**: streamlined online claims process by 40%





Leader Experience

Matrixed Org Model





Value Stream Architecture

# Thank you

