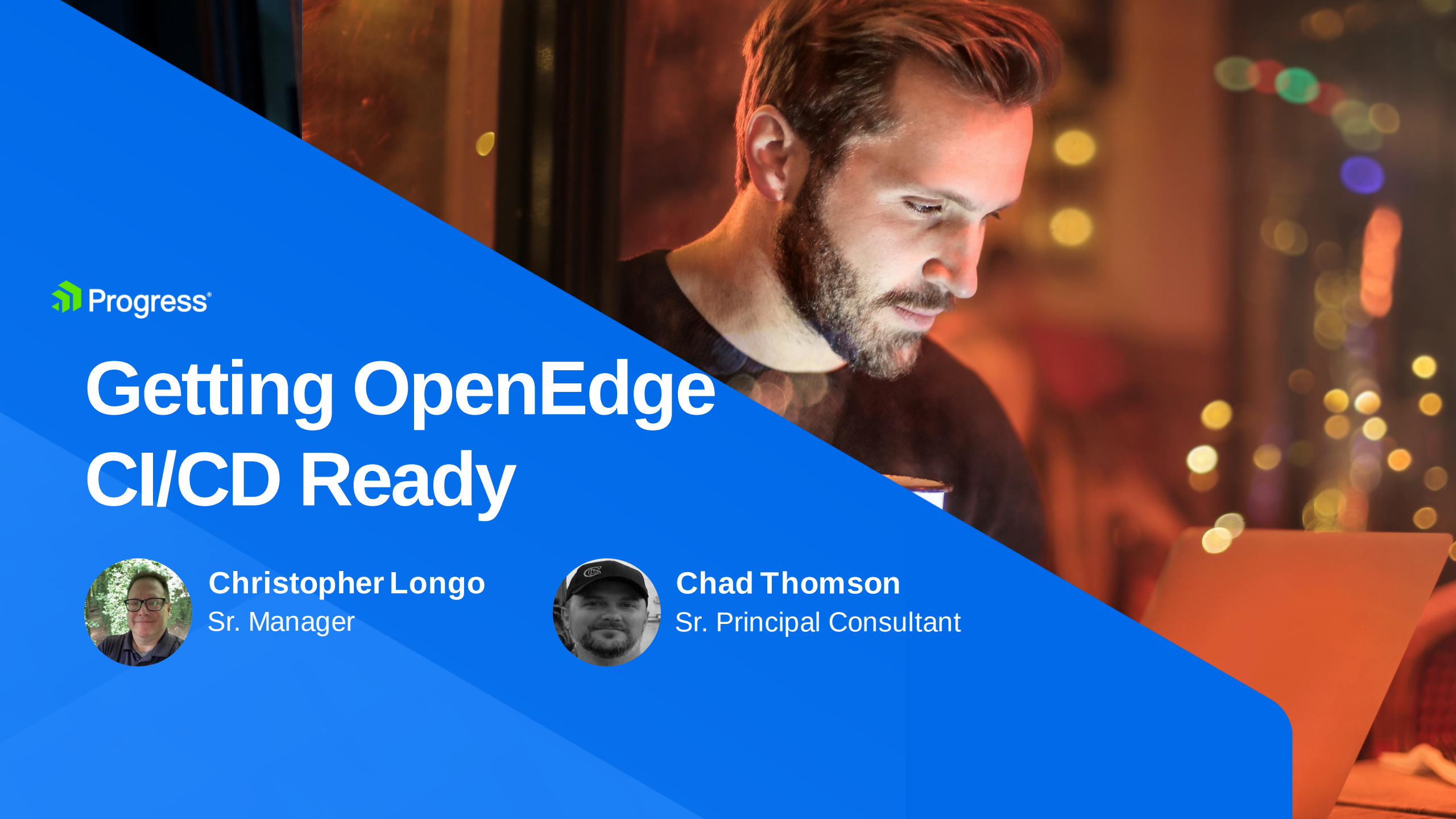


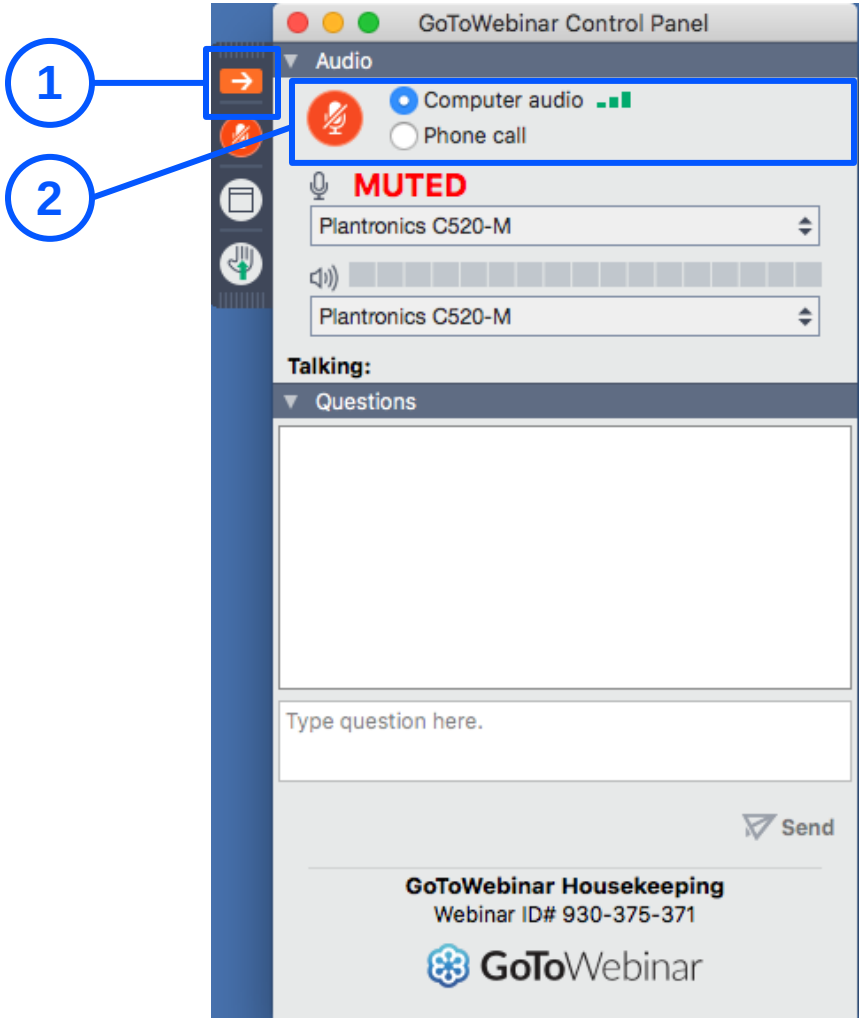
Progress

Getting OpenEdge CI/CD Ready

Christopher Longo
Sr. Manager

Chad Thomson
Sr. Principal Consultant

GoToWebinar: How to Participate

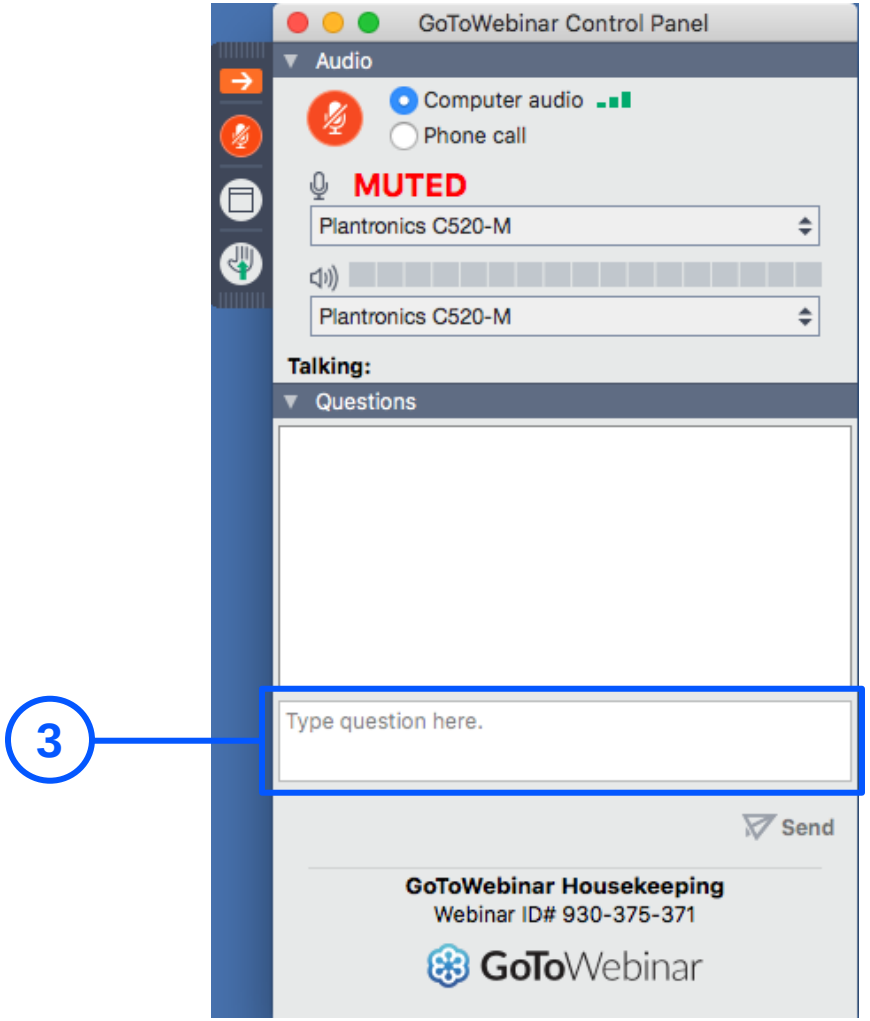


1. Open and hide your control panel
2. Join audio:
   - Choose “Computer Audio” to use VoIP

   or

   - Choose “Phone Call” and dial using the information provided

GoToWebinar: Q&A



3. Submit your questions & comments using the Questions panel at any time during the webinar

Today's Speakers

Christopher Longo

Sr. Manager

Chad Thomson

Sr. Principal Consultant

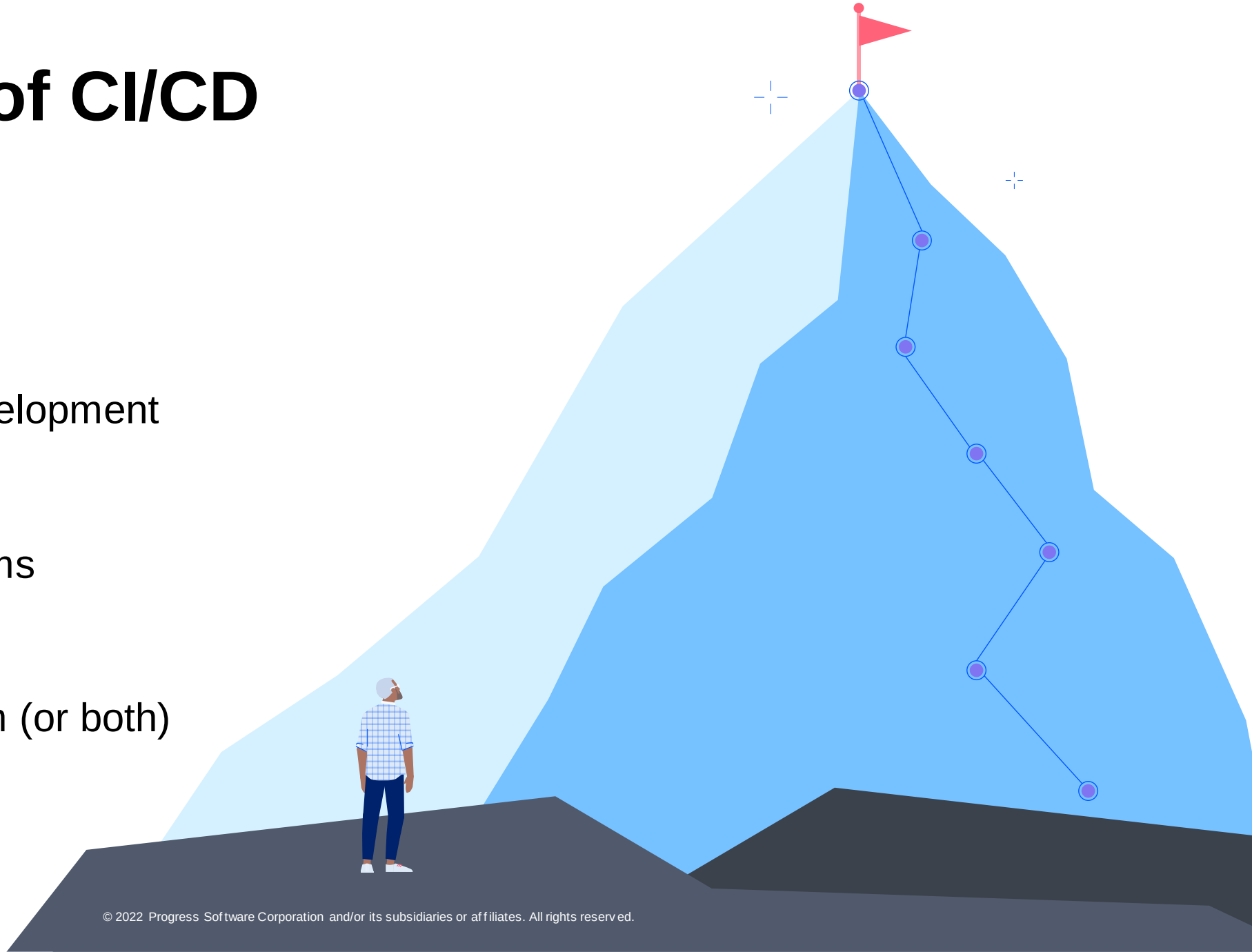
CICD Agenda

- Challenges of CI/CD
- What is CI/CD?
- The Benefits and Importance of CI/CD
- DevOps Tooling
- Demo
- QA

Progress

Challenges of CI/CD

- Technical debt
- Legacy Systems
- Large Team Development
- Platform
- Operating systems
- Versions
- Cloud v On-prem (or both)
- Customizations



Progress

Before CI/CD

There is a BETTER way.

Progress

After CI/CD

Totally Automated and Low Risk!

Progress

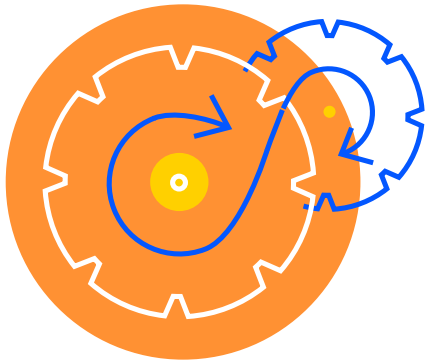
What is CI/CD?

DevOps

DevOps is the combination of philosophies, practices, teams, and tools that **increase** an organization's **ability to deliver** applications and services at **high velocity and scale**

Progress®

CI/CD



Stands for **Continuous Integration (CI)** and

Continuous Delivery or Continuous Deployment (CD)

- Continuous Integration (CI) uses automation tooling that empowers development teams to build, test and merge code as seamlessly as possible.
- Continuous Delivery (CD) is a means of releasing code incrementally to a platform through automation i.e. Staging, UAT, and QA. IOW it is the practice of ensuring that software is always ready to be deployed. This eliminates a risky, big-bang approach.
- Continuous Deployment (CD) provides the ability to push new software releases into production in an automated way based on a schedule or on-demand. “Push button” deployment.

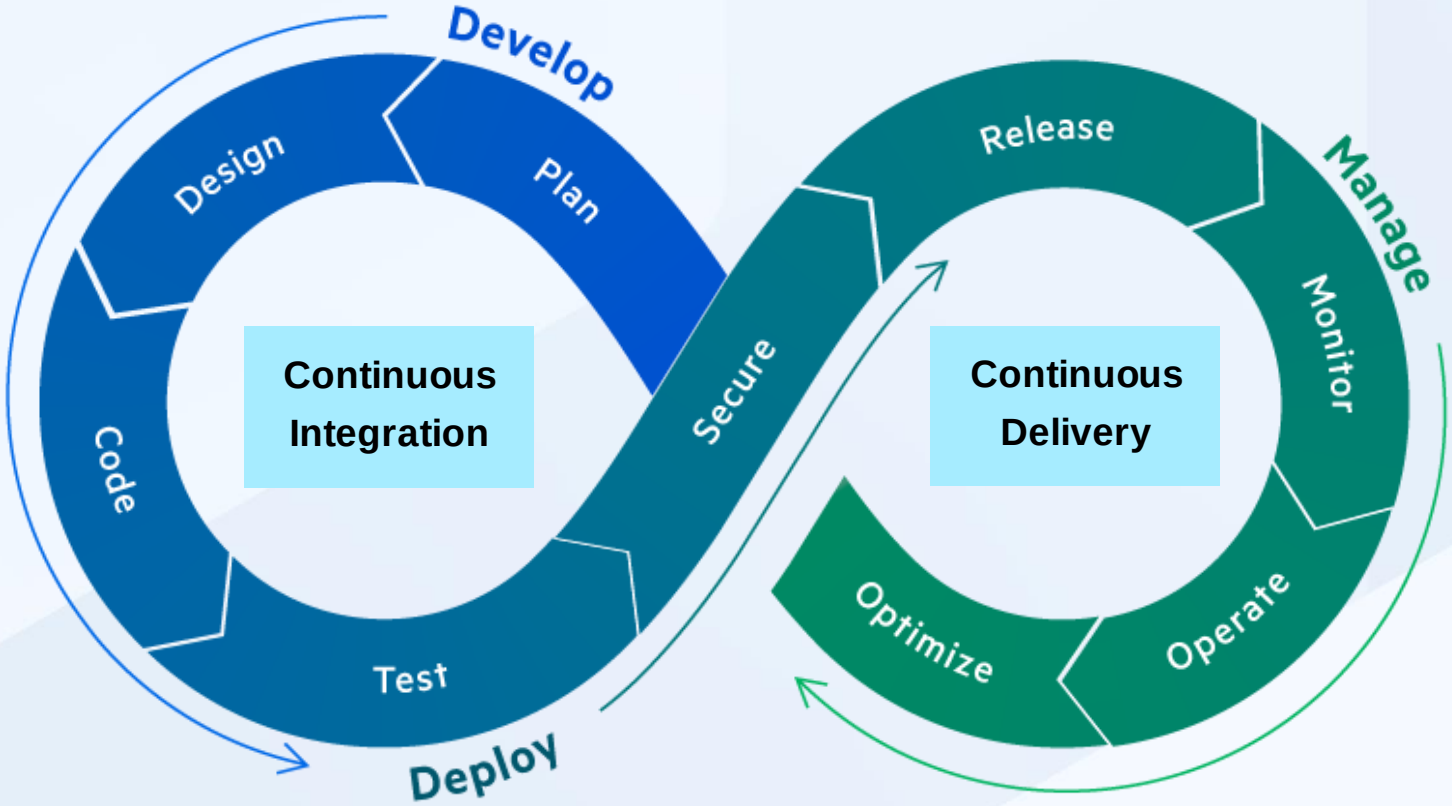
The Goal of a Mature CICD Strategy

To **deliver/deploy** a quality software release with **high confidence**, in a **low-risk**, **repeatable**, **non-disruptive manner** based on a schedule or on-demand.

Progress®

CI/CD Pipeline

An important aspect of the pipeline is the ability to iterate, test, and validate, provide feedback at critical points, and to fail back (undo tasks) if required.



The Benefits and Importance of CI/CD

Benefits of CICD

Automation

Build automation insures efficiency, faster build and less human intervention

Code Stability

Automation enables quicker feedback loops in cases of code defects. Identification of defects and logging results in quicker resolution

Metrics and Analytics

Quality dashboards (e.g. SonarQube) provide complete visibility and complete view into build results. Software such as SonarQube can help with validating coding standards, best-practices, security vulnerabilities and performance pitfalls, using automated static Code Analysis rules.

Benefits of CICD

Enables CD

Through a CI Server (e.g., Jenkins), resulting builds can be auto deployed to the target server as desired

Productivity

Developers will be able to focus on developing and spend far less energy on the CI process

Quality

The combination of test automation and other CI benefits allows for more development focus resulting in better quality

Faster Updates/Releases

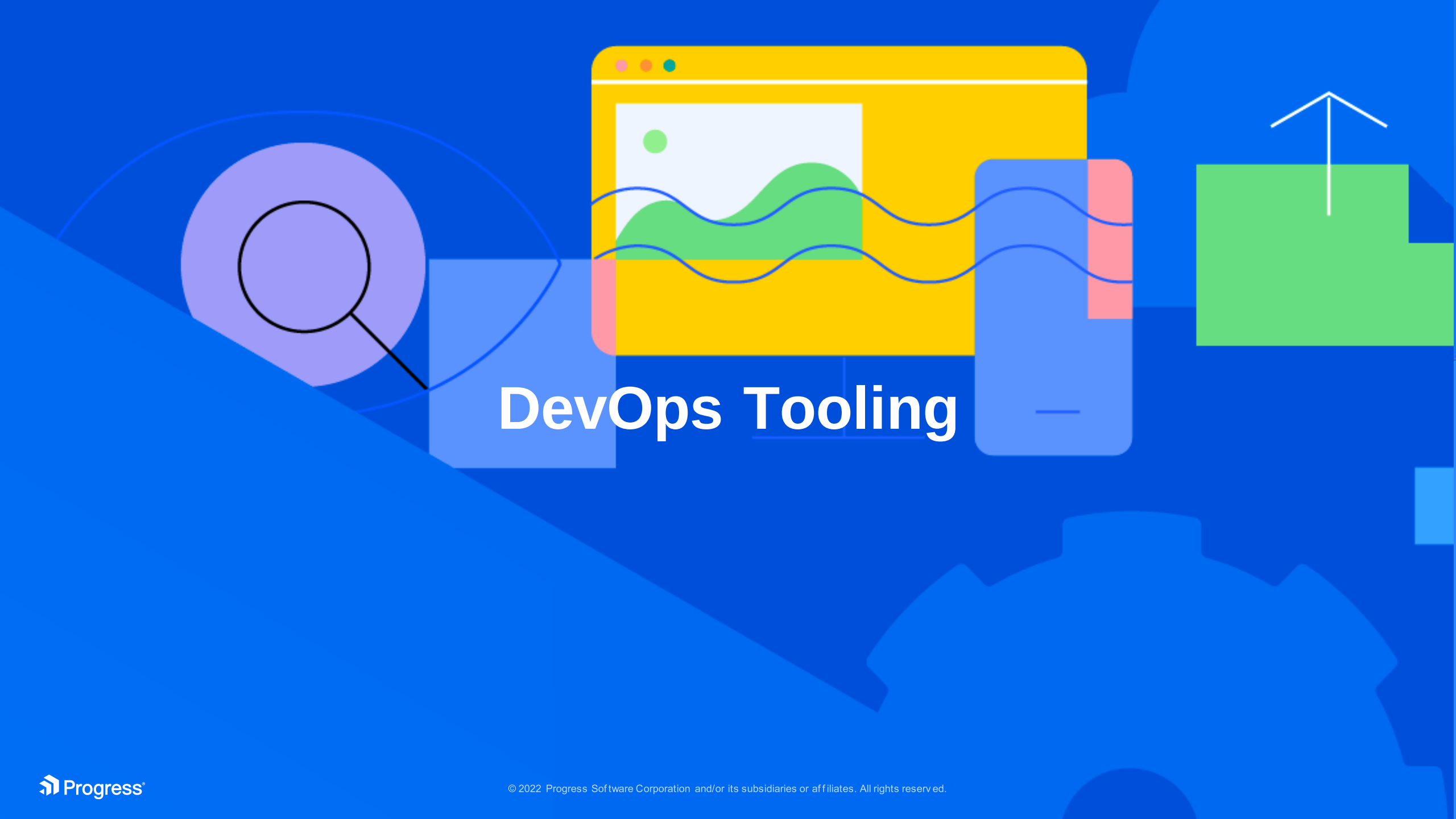
Confidence in code quality and repeatable processes enables faster release cycles

How to get started with CI/CD...

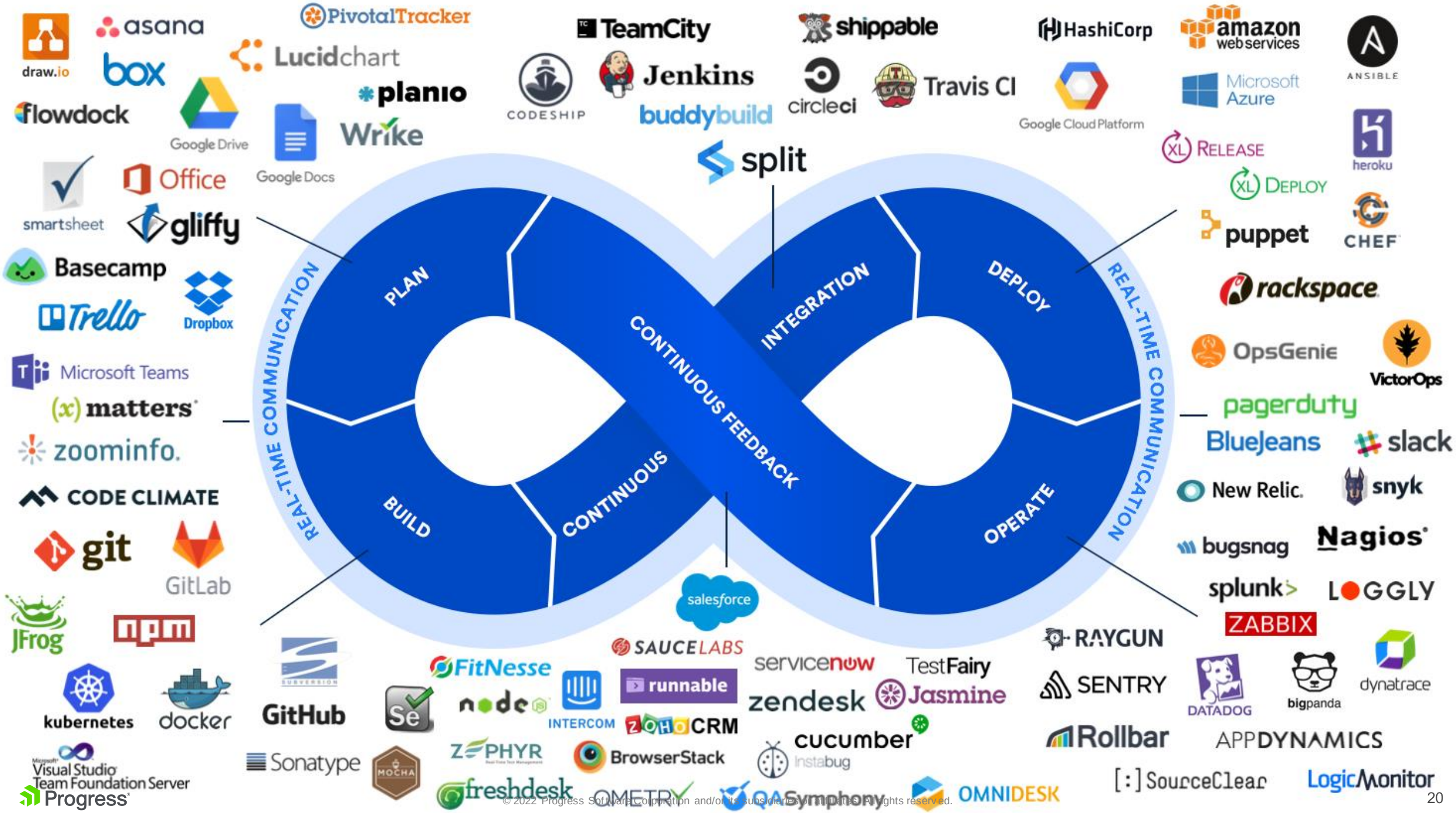
Getting Started

Or what if I had to rebuild my production platform from scratch?

- Development Process Review or Assessment
  - Source Code
  - Services
  - Application Touchpoints
  - Integrations



DevOps Tooling



What Tools can I use with OpenEdge?

Source Code and Asset Management

GitHub

RoundTable

Subversion

Mercurial

What Tools can I use with OpenEdge?

Build and Deploy

Jenkins

Team City

Bamboo

Bamboo

Ant

Gradle

What Tools can I use with OpenEdge?

Functional and Non-functional testing

ABLUnit

SoapUI

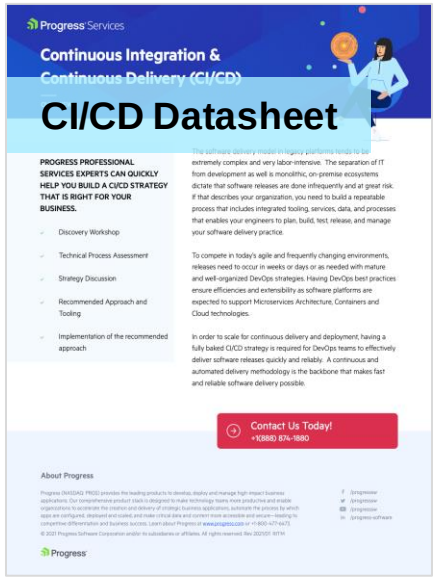
jMeter

Test Studio

Demo

How can Progress help?

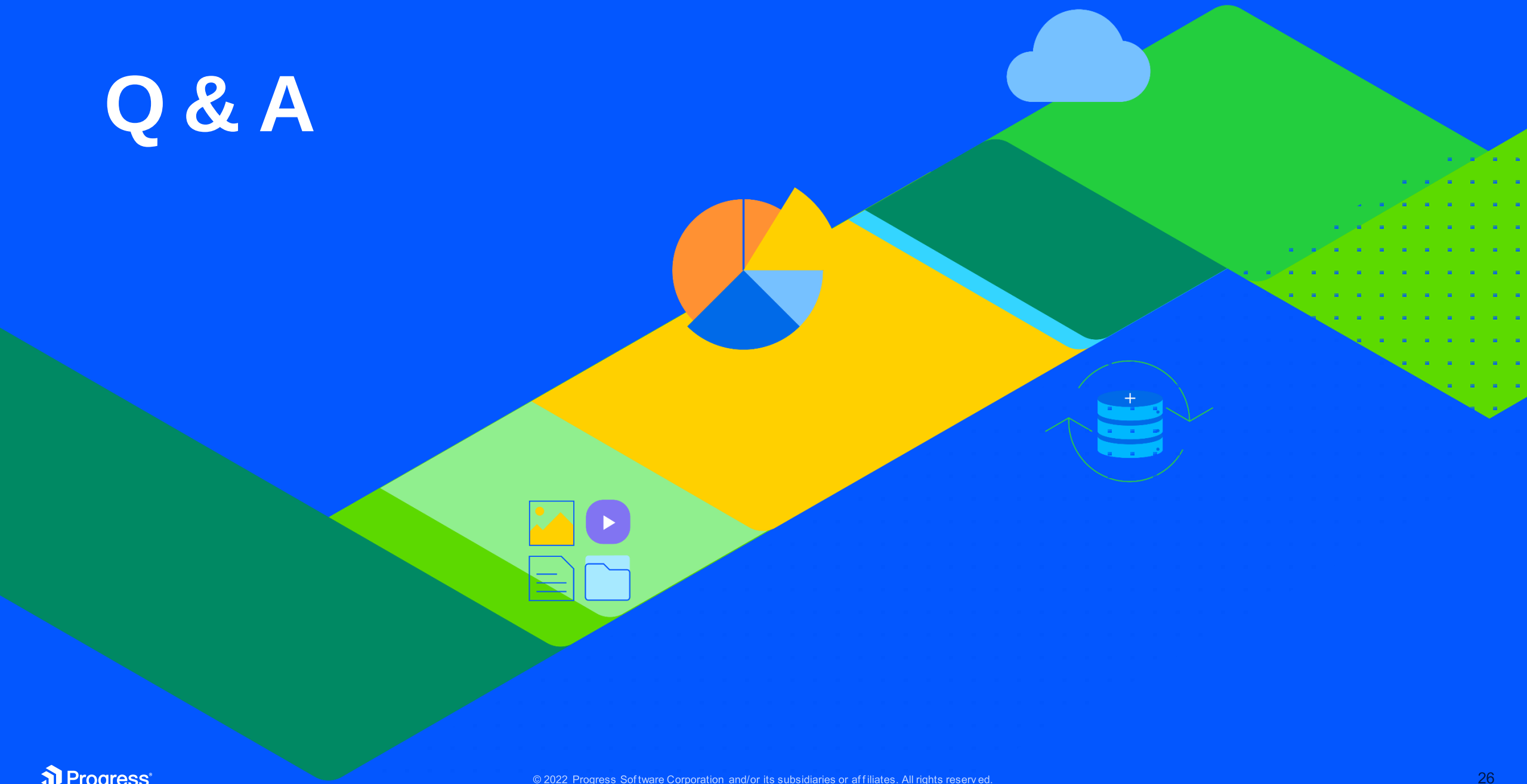
CI/CD Resources



Professional Services Include:

- PAS for OpenEdge Services
- Pro2 Services
- OpenEdge MDBA and Database Services
- OpenEdge Training
- Skills Assessment
- CI/CD Services
- Project Management
- Modernization Services
- UX Services
- Staff Augmentation
- QAD Services

Q & A




Progress®