ARCAD Software

Breaking barriers





Nouveaux languages et outils de développement dans une stratégie DevOps

Languages of IBM i









Modern RPG

































IBM i Open Source and the Future



- Focus on the eco system
- Languages & Tools
- Normal tools combined with industry best tools to build DevOps

FACTS



Legacy systems are responsible for >70% of the world's business transactions

Translation...the world runs on COBOL... and RPG.... and this will not change for the foreseeable future...will it be a bottleneck or an asset?





- 1. We must succeed in our digital transformation
- 2. We must succeed with our generational transition
- => We must:

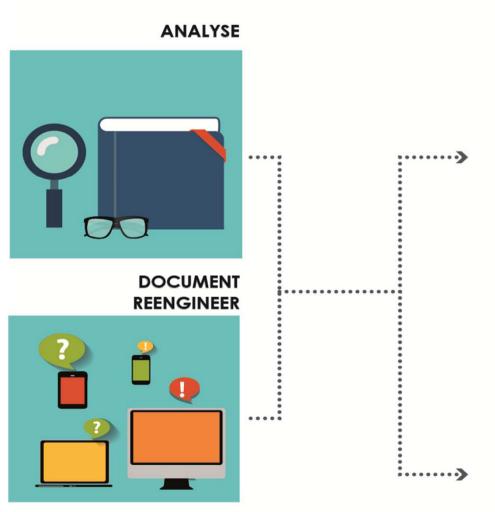
Modernize!





Strategic steps



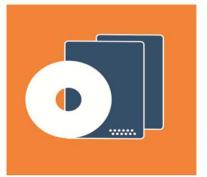




MODERNIZE DEVELOPER'S ENVIRONMENT AND METHODS



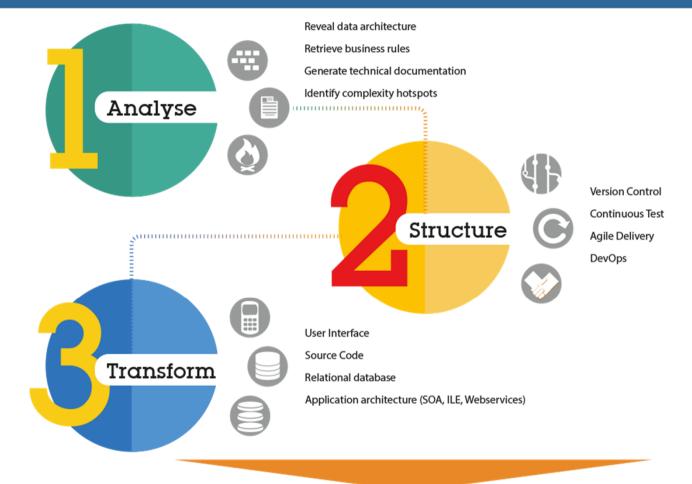
MODERNIZE APPLICATIONS



IMPLEMENT SOFTWARE PACKAGES

Methodology





















Application Analysis



- Does the application have a well-structured database?
- Was the application originally written for System/34, System/36, System/38, or one of the many flavors of IBM AS/400, IBM eServer systems, IBM iSeries, or IBM i?
- What language is the application written in? Is it COBOL, COBOL ILE, RPG II, RPG III, RPG IV, Java, C, some other language, or some combination of two or more languages?
- Is the application using the IBM Integrated Language Environment (ILE)?
- Are the application programs well-structured?
- How maintainable is the application source code?



Maintainability Index



Analyze your existing application portfolio from a business standpoint. This will help identify which applications to maintain, modernize, replace or reengineer.

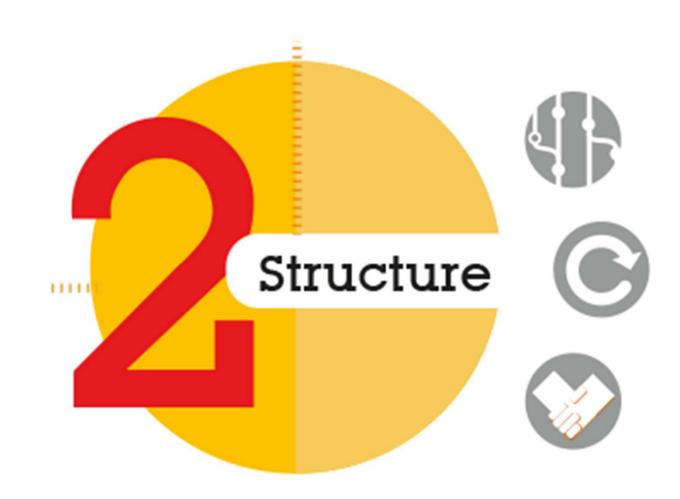
Quantitative

- What is volume of code contained? Which components are obsolete? Where is the dead code? What is the modification rate? What level of complexity?
- According to the Lean Software Foundation, on average 45% of features in enterprise software are never used. Cut out dead wood to avoid unnecessary maintenance overhead.

Qualitative

— How well does each application/function meet the user's needs? What technical skills are needed to maintain and adapt this application into the future?





Digital transformation revolutionizes IT organizations



- Value
- Speed
- Robustness

Bi modal IT



	Systems of Records	Systems of Engagement
Applications	Old/volume	New/small
Speed of change	Slow	Fast
Methodology	V Cycle	Agile
Knowledge	Specialized	« Jack of all trades »
Collaboration	Silos	Collaborative
	Controled by IT	External eco system

What is DevOps?

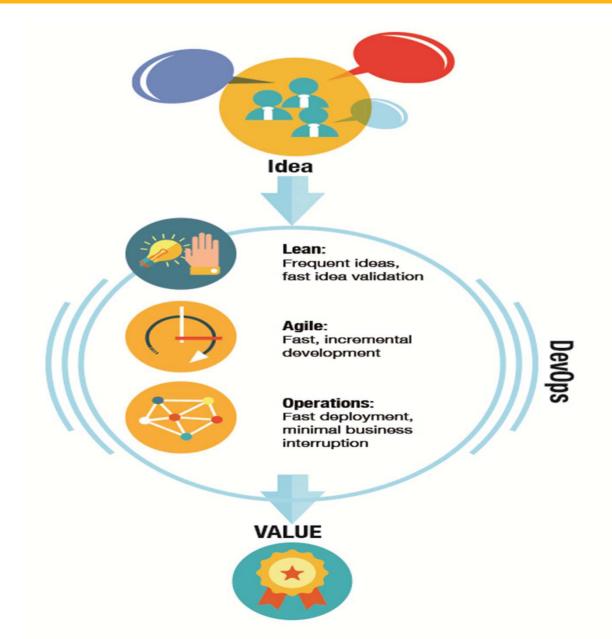


A DevOps strategy:

- Aligns the Development and Operations functions to structure and automate continuous software delivery
- Brings diverse development teams together
- Supports synchronized, multi-platform deployment

The 3 components of a DevOps strategy





The value of DevOps strategy







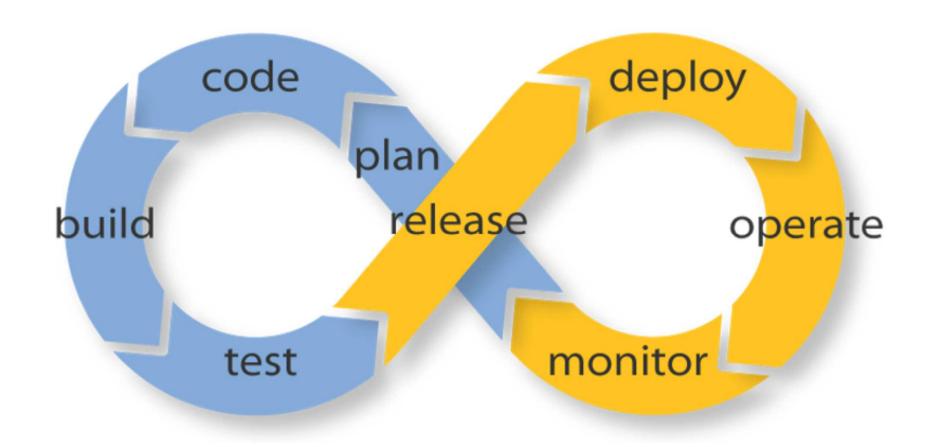
speed, cost, quality and risk



time to customer feedback

« Continuous »





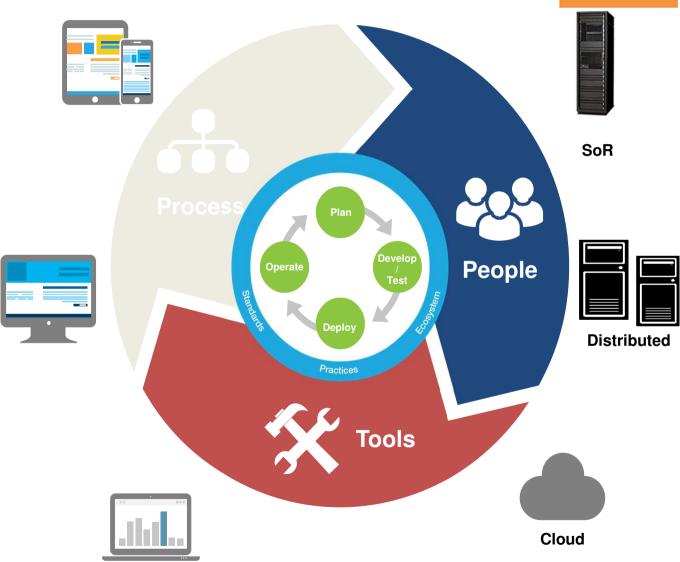
Process, People, Tools



 DevOps is not one of these things... It's all of them!

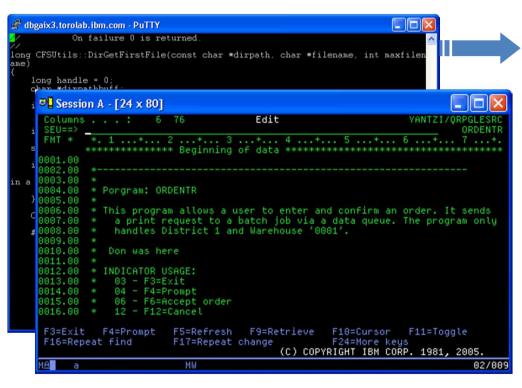
 ...across the entire lifecycle

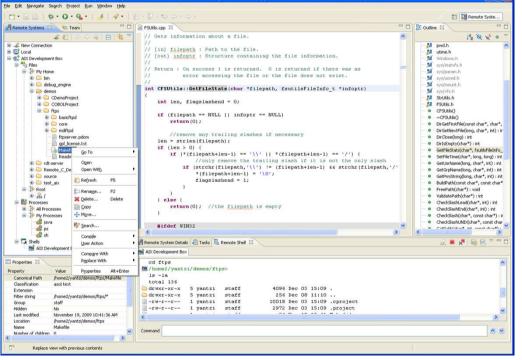
 ...for all technologies and platforms



Adopt RDi: modern development environment

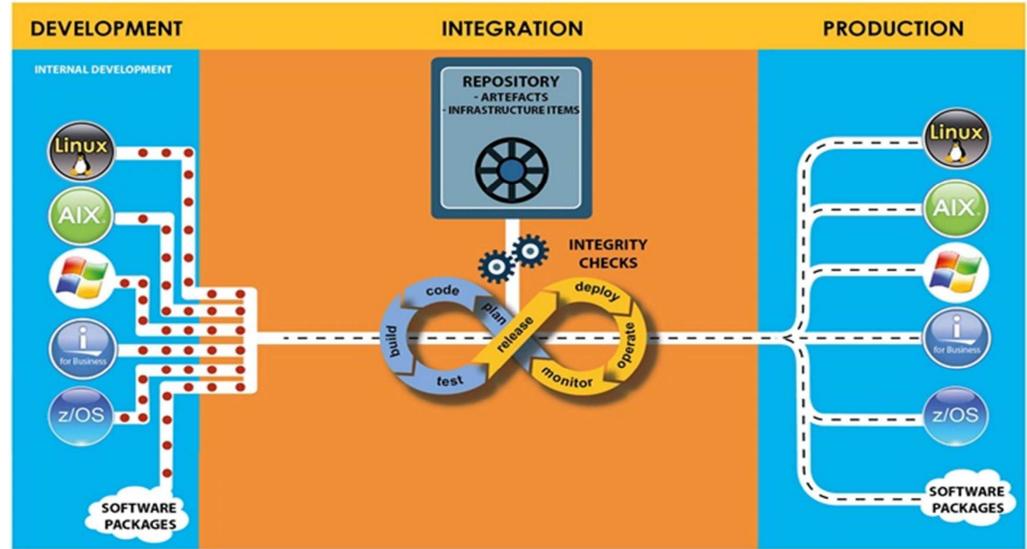






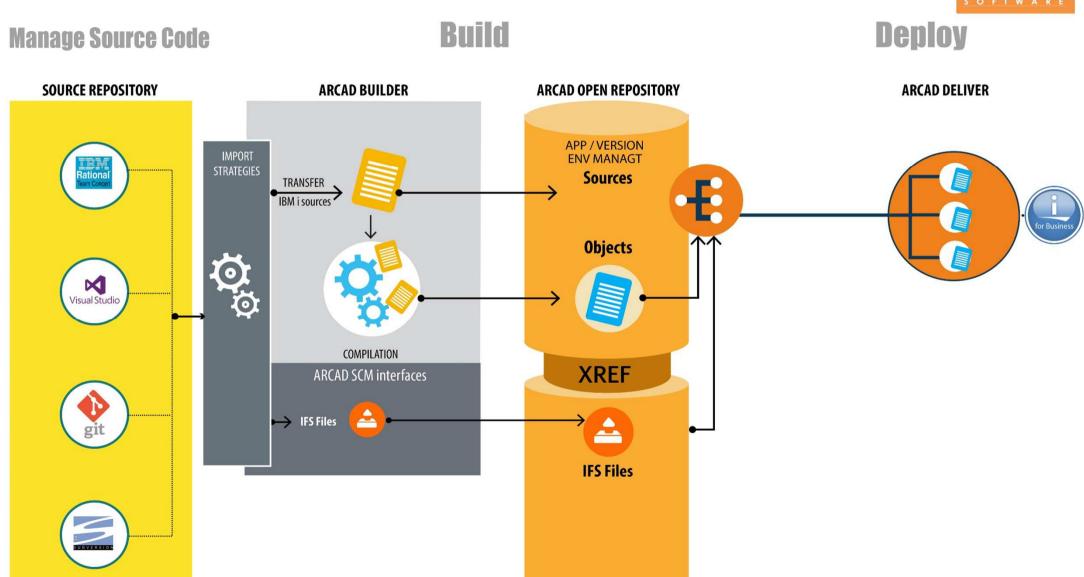
DevOps journey





IBM i

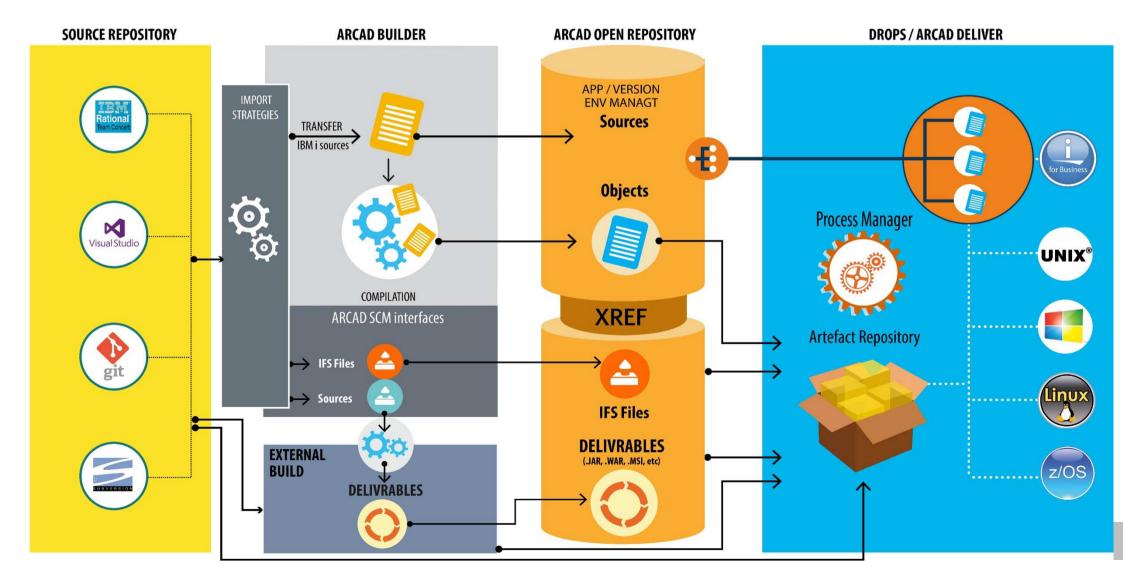




Multi-platform

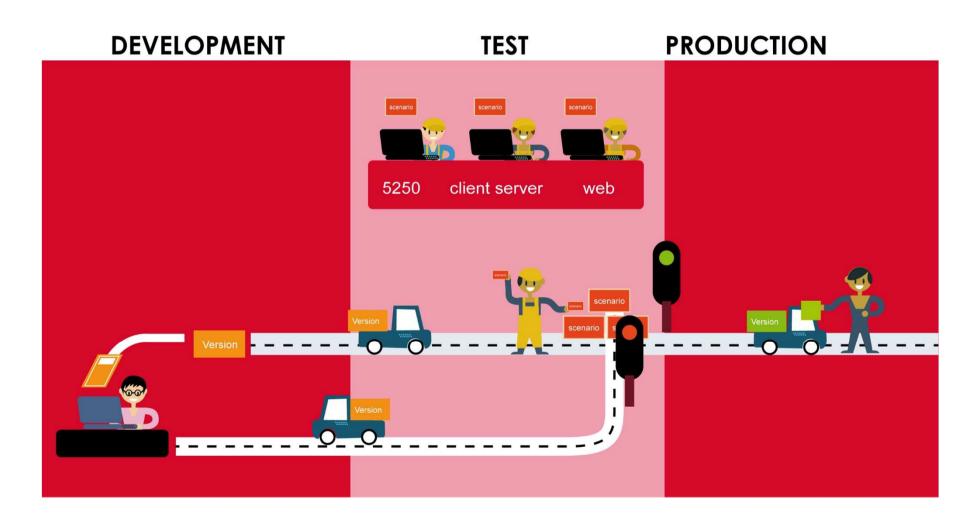


Manage Source Code Build Deploy



Including « application change firewall »





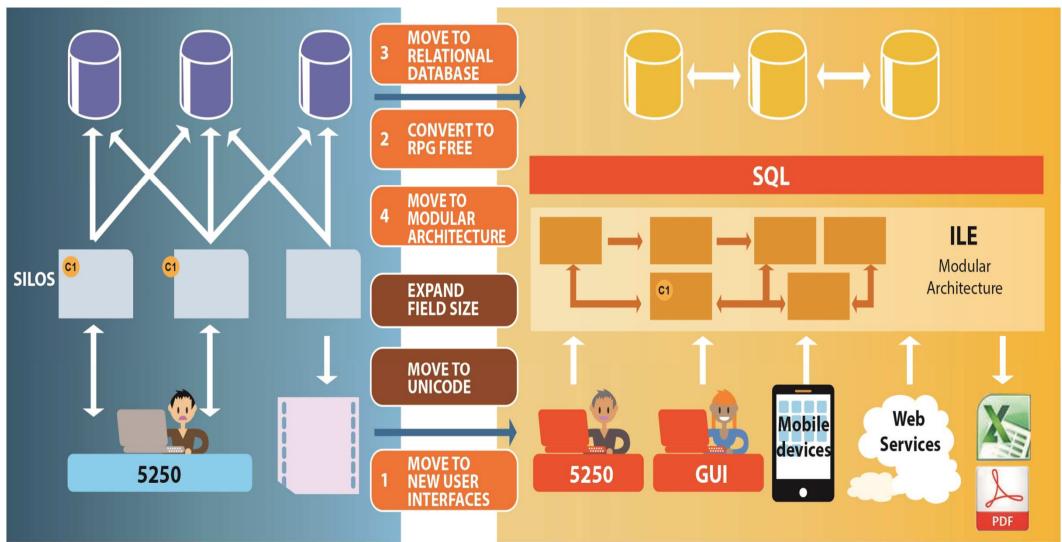






Modernization 2.0





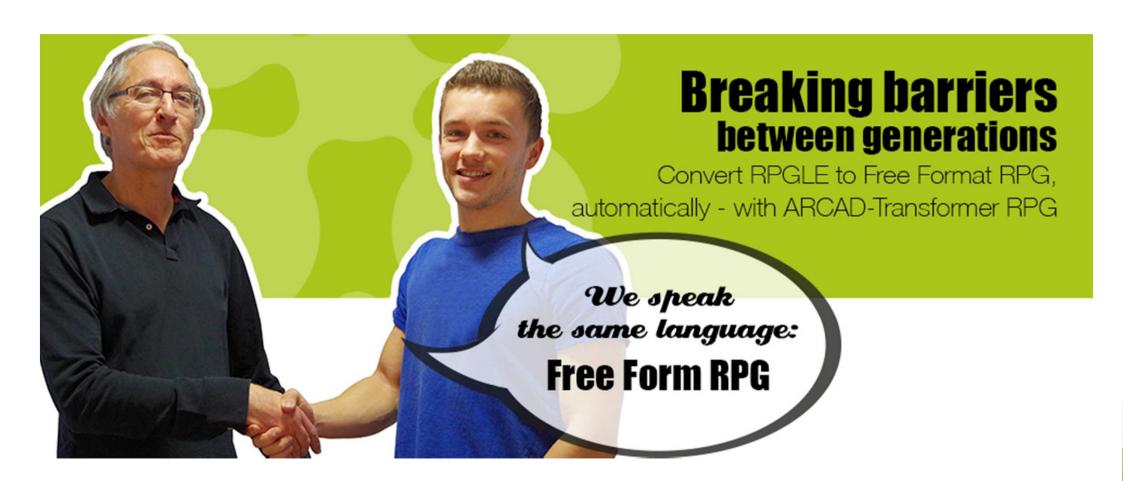
Database modernization



- Record integrity checks
- DDS -> DDL
- Long names adoption
- « false » constraints

Free form RPG





Development with Profound UI



Web

- Mobile-enabled applications that work in any device/browser
- Easy deployment of 5250 applications
- Does not support native capabilities (Camera, etc)

Hybrid w/ Mobile Client

- Profound UI Mobile Client makes deploying iPhone/iPad/Android applications easy
- Develop native applications without worry of app store approval or 3rd party tools

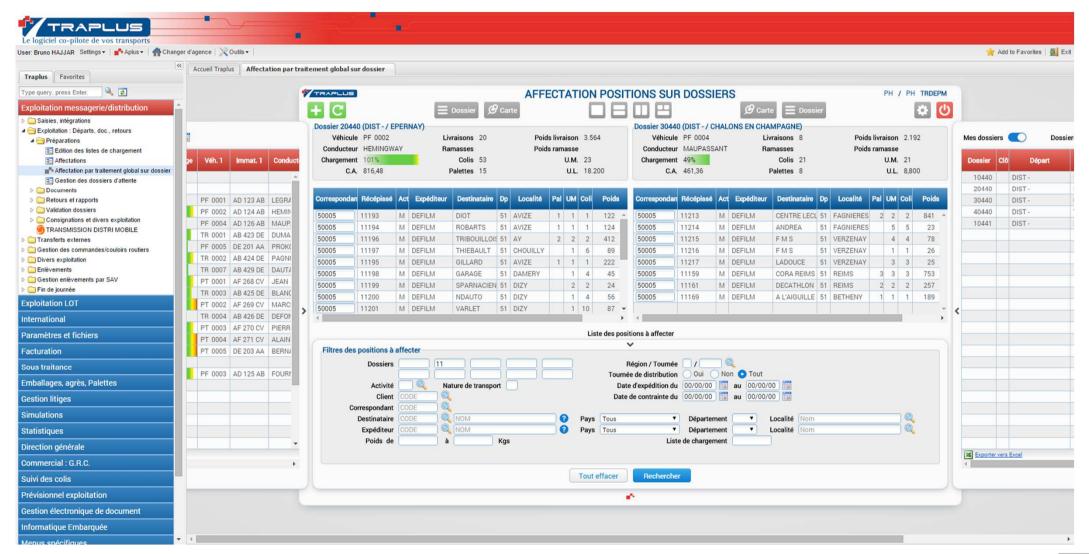
Hybrid w/PhoneGap

- Deploy mobile apps with native capabilities without learning 3rd party languages
- More control over application branding and submitting to app stores



Profound UI in action





Modernization As A Service



- Fixed-price Package offering to:
 - Modernize DB and Code
 - Abandon case tools:
 - CA/2E (Synon)
 - Adelia

- Optional
 - User Interface Modernization
 - Web
 - Mobile

Added Value



- Migration to a standard language
- Migration to a standard development environment
- Migration to a relational data base

How?









