



## DX & Connections Roadmap

Engage 2023

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# HCLSoftware

## Vision



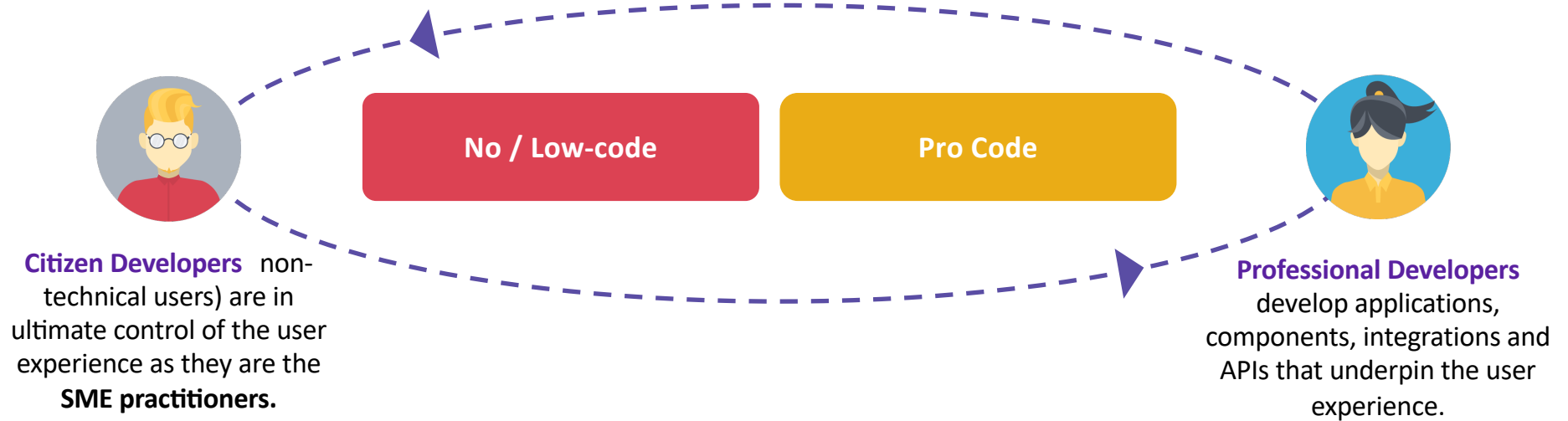
The **fastest way** for Practitioners,  
Developers and IT to deliver  
**trusted** Digital Experiences at  
the intersection of **Content**,  
**Applications** and **Processes**

Customer self-service ▪ On-line Banking ▪ Experiential eCommerce ▪ B2B Supply Chain ▪ B2B Partner Portal ▪ Employee Portal ▪ Government / Citizen Portals ▪ Bidding / Contracts Portal ▪ Employee Intranet

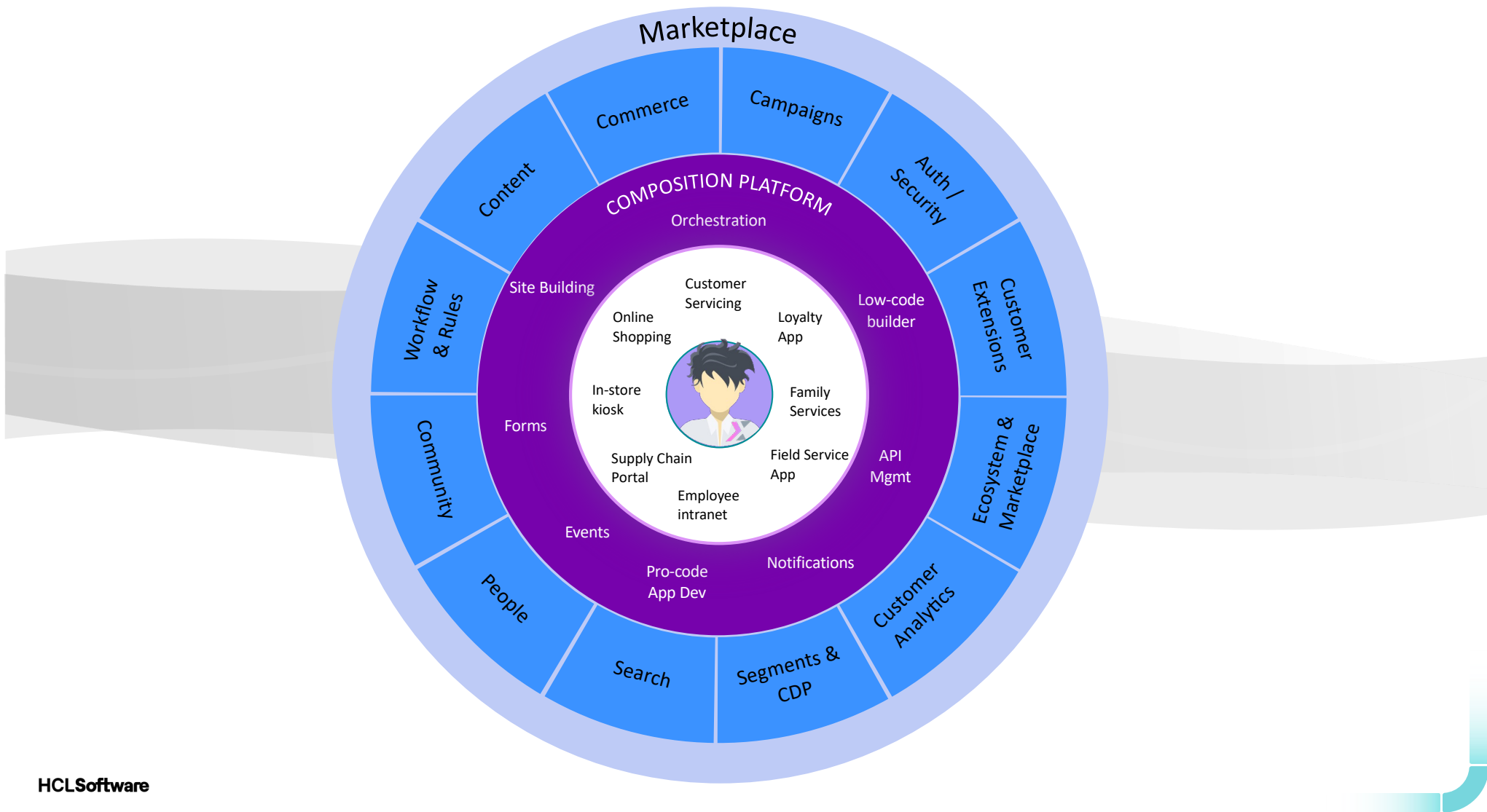




# Engaging all your workforce



**Composition Platform** will enable “no cliff” round trips and teaming between citizen developers, designers and pro developers



# Unified Digital Platform

Optimized Merchandising

React Based Customizable  
Web Components

Digitize Critical  
Business Processes

Targeted Outcome  
Based Experiences

Personalized  
Notifications &  
Geofencing

NLP Powered Search  
and AI Author  
Assistance

ML Driven Product  
Offers and Promotions

Journey and Campaign  
Management



# HCLSoftware

## Platform Direction

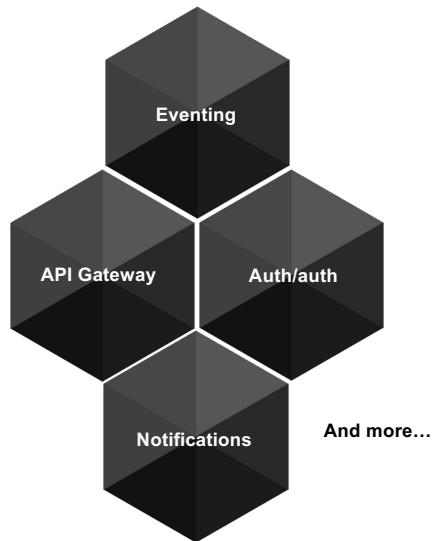




# Towards a composable architecture

## Core

Common Services that make up a base layer for many products



+

## Packages

Application services

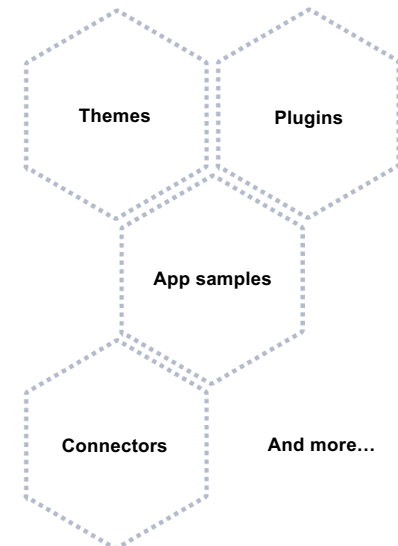


And loads more...

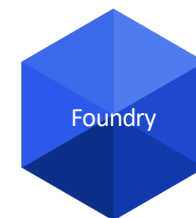
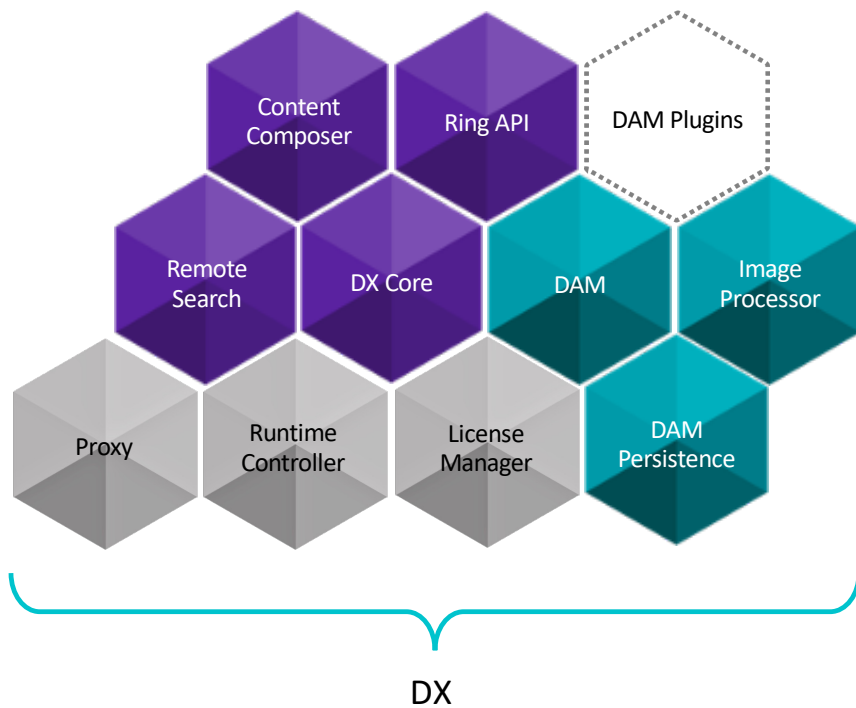
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## Marketplace

Extensions and add-ons



## Current status



# Where are we heading?

## Design-time



## Runtime services



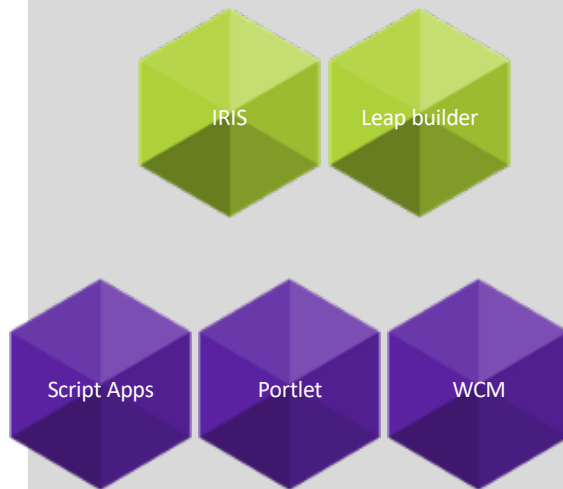
# App development future!

Development simplicity

Micro frontend strategy

Team velocity

## Choose your development approach



## Up-to-date JavaScript framework support

- updated Theme
- documentation and examples

## Simplify Theme development

- WCM-based theme

## Up-to-date Java runtime

- OpenLiberty

## Headless development

- Increase REST API coverage
- Volt MX Foundry



## DX + Volt Foundry Together (future packaging in discussion)



Desktop



Mobile Browser



Kiosk



Chat-bot

### HCL DX

#### Digital Data Connector

WCM Developer Focused  
WCM presentation templates applied to external data calls  
Common patterns are lists, feeds, catalogs

#### Script Application

Front End Developer Focused  
Leverage modern JavaScript frameworks for rich UI experiences  
React, Node.js, Vue, etc.

#### LEAP

Citizen Developer Focused  
Situational Apps  
Easy on-ramp for non-technical user

### Volt Foundry: Secure Application Backend Services & Integration Adapters



ERP



Cloud APIs



CRM



Web Services



Legacy



Databases



IoT



HCL

# Example: DX + MX Architecture: Utility Self-Service with SAP Backend

**SEMPRA** My Account Utility Resources Search

Overview Billing Usage Lower Your Bills

Good afternoon, Allen

Electricity service outages have been reported in the Jacksonville area. If you are affected, please see the status page.

### Bill Summary

Electric / 240 Amelia Way, Jacksonville, FL / #2503602

Payment due on 10/12/22 [Set up Autopay](#)

**\$207.76** [Pay Bill](#)

\$182.19 paid on 09/02/22 [View payment history](#) [View Bill](#)

### Your electricity usage

See how much energy you used, compare your usage with your neighbors, and understand the impact of weather on your monthly bill.

1,200 kWh

Aug 2022 Sep 2022

902 kWh \$265.44

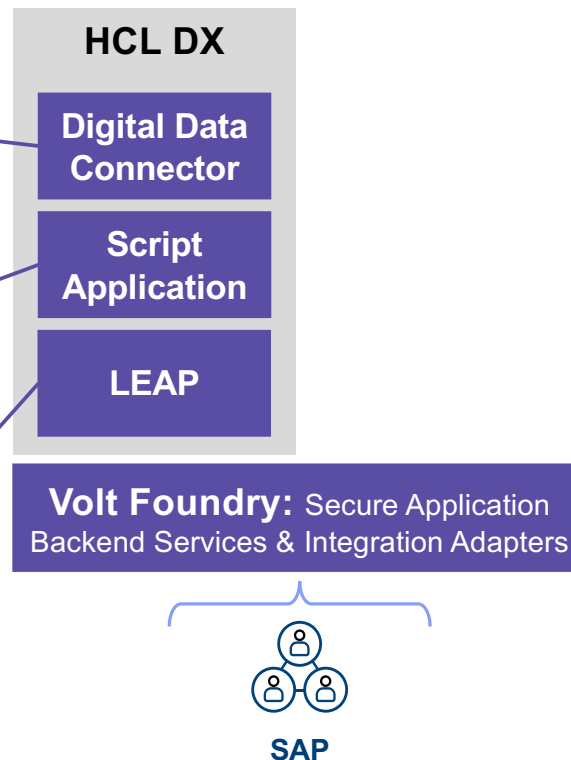
[See more usage details](#)

### Notification Preferences

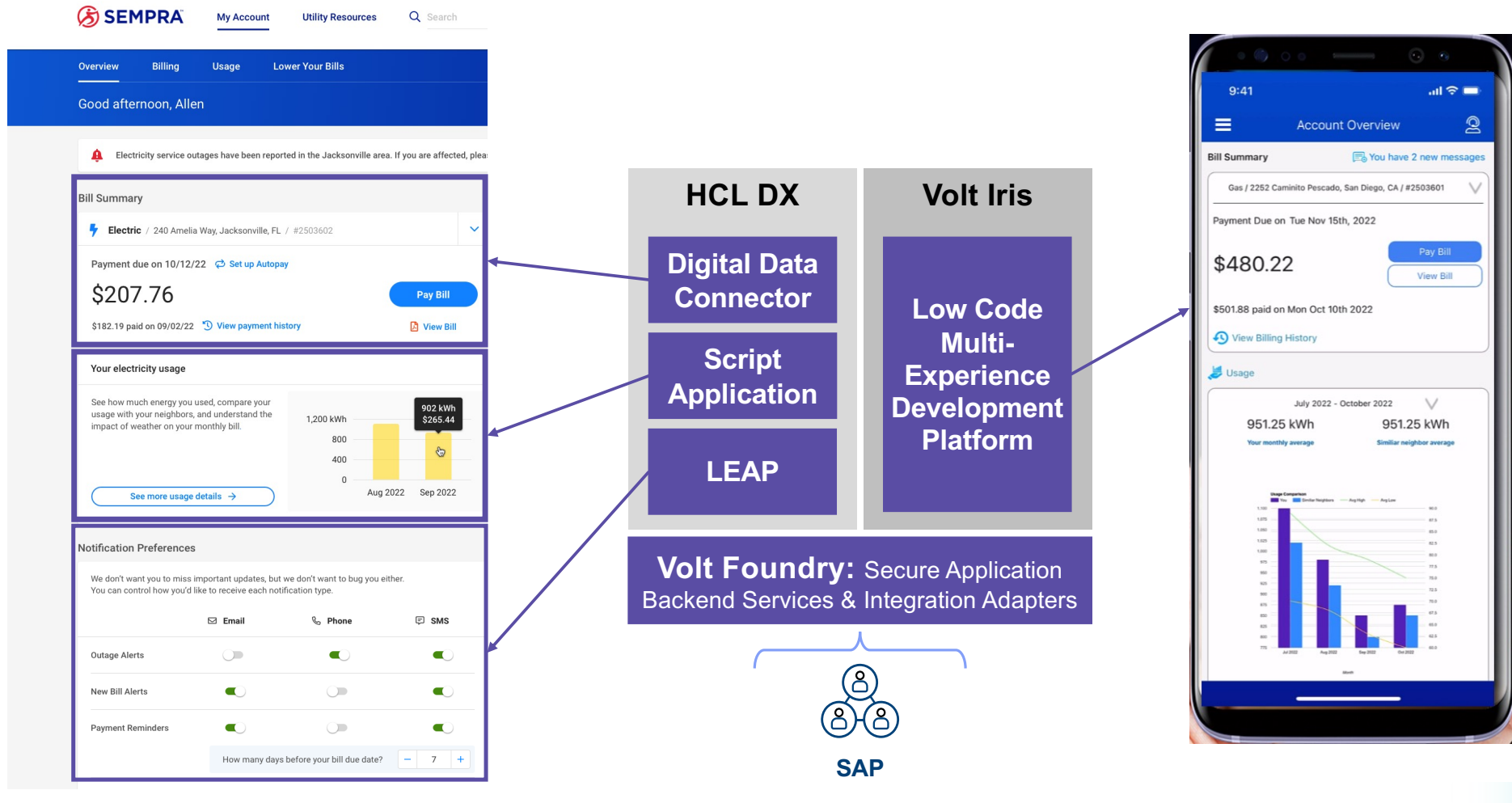
We don't want you to miss important updates, but we don't want to bug you either. You can control how you'd like to receive each notification type.

	Email	Phone	SMS
Outage Alerts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
New Bill Alerts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Payment Reminders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

How many days before your bill due date?



# Example: DX + MX Architecture: Utility Self-Service with SAP Backend



# HCLSoftware

## Product Updates

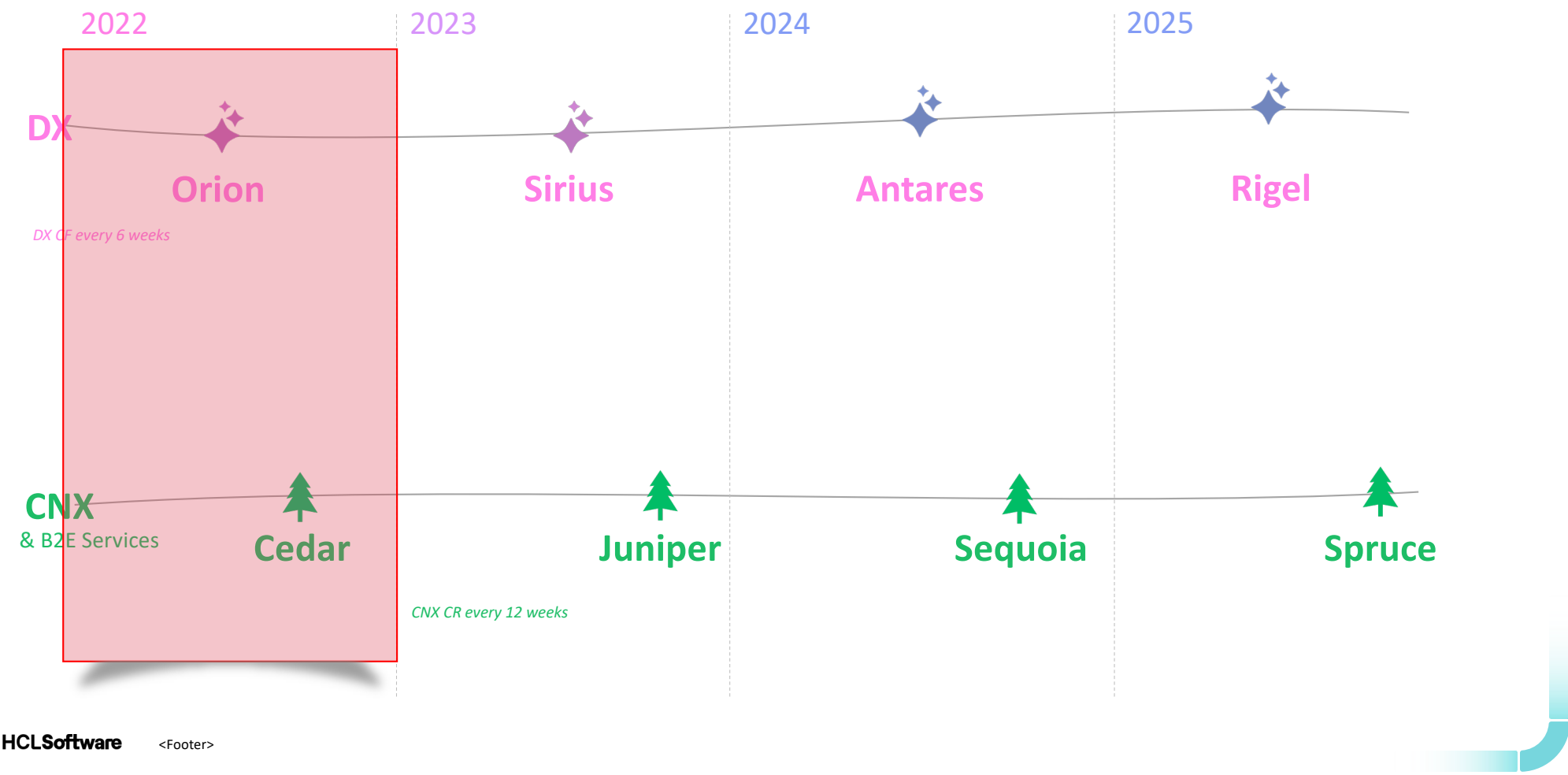


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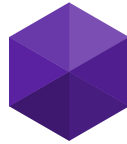
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# Future milestones



# HCL DX – Orion Release Highlights (2022)



**CX/EX Experience**  
delivered with  
more power

**Extensible Personalization** new  
APIs for rule management and  
invocation



**Practitioner**  
experiences with less  
code, faster

**DAM Extensibility**  
event-based custom  
functionality

**Leap v9.3**  
updated App Design & new  
Visual Workflow



**Cloud Native**  
deployment that  
lowers your TCO

**New Pricing & Packaging**  
consumption-based pricing &  
licensing built for Kube

**Helm**  
transparent, configurable Kube  
deployments



**Developers create,  
integrate & automate  
with ease**

**AI image tagging** for content  
enrichment

**DAM production readiness**  
staging to production

# HCL Connections Cedar (v8, 2022)



## Reimagined User Experience

- Intuitive, modern navigation and design
- Prominent Search/Sharing for instant results and one-click sharing
- Enables customization while maintaining consistency

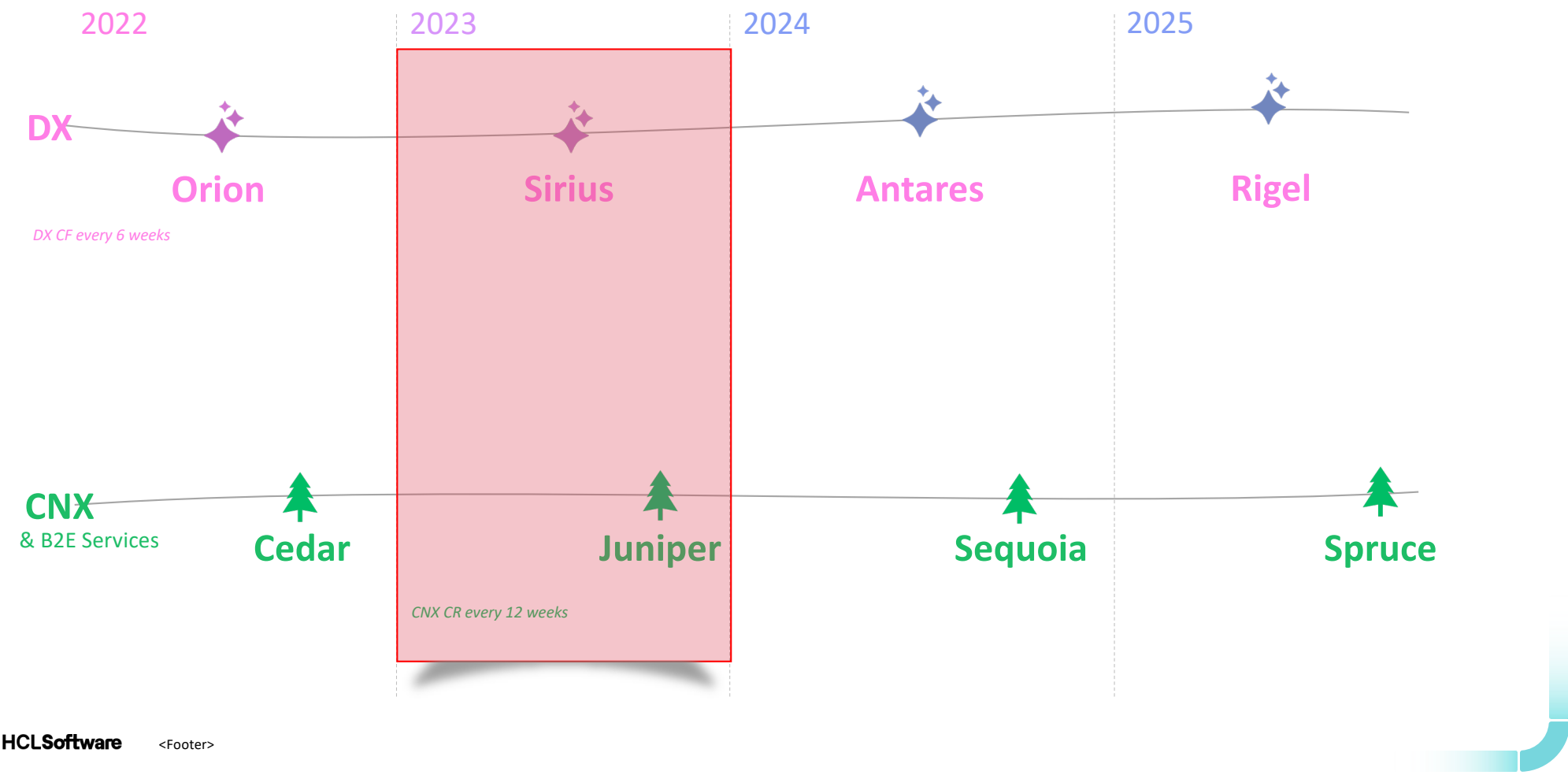
## Supercharged Search

- Streamlined search UI
- Recent searches and quick-results
- Clear results – simplified filtering ensures relevant results

## Ubiquitous Sharing

- One-click access on every page:
  - Upload and share a file
  - Share content inside Connections or through third party services (e.g., Sametime, Teams)

# Future milestones





# DX Sirius (2023) – Lots of other things too

## DAM Updates

- Updated DAM Kaltura Video extension plugin support
- DAM Friendly URLs - ability to define a collection-unique name

## WCM Authoring Portlet

- RTE options now include Tiny MCE
- WCM and DAM set SVG to disabled by default
- Library explorer column sorting enhancement
- A new option to set the sort order of the last modified date column from the WCM Library Explorer to descending in addition to ascending default order.
- Page and menu sorting improvements

## Site Manager

- Ability to change default Page Template

## Content Composer

- Keyword Management and CRUD
- Copy, Move, Duplicate Content Items
- Save content updates as new content items
- Media elements in content items will now apply asset source default value and restriction
- Support for Media and link elements' fields for end-user accessibility compliance
- Create content under managed pages

## Experience API Updates

- Web Content Manager Apply Content Template API update
- New WCM v2 endpoints for Rich Text and Image components

## Ring API Updates

- Now strictly enforces case on query parameters
- Content Controller PUT /webcontent/contents/{content\_id} endpoint updated to accept "parent" and "library" parameters.

## DX Client Updates

- Support ability to execute in multiple container environments
- New Restart Core Pods command
- Removed deprecated parameters and common configuration from the config file
- Live Sync (est. 211)
- New Undeploy EAR application command

## Samples and How-To's

- Sample Script Application integration and Theme modernization, plus How-to guides
- New Script Application Tutorials and Sample Applications are available on the HCL Software Github repository
- Maven portlet and page creation sample on Github

## Miscellaneous

- Removal and replacement of Document Conversion Services
- HCL Web Experience Factory V8.5.1 (available in the DX 8.5.1)
- Syndication Administration Role Delegation
- DAM Staging Obtain Subscribers List
- Config Option to set absolute value Content Composer syndication
- Login portlet Anonymous sign-up feature disabled
- Sizing Guidance for DAM
- DX Connections 8 integration Persist cw\_profile on connect
- Remote Search: Helm configuration – In progress
- Make Comments as a generic component – In progress

## Expand B2E Use Case

- Personalization API binding rules
- Development sample integrating HCL Unica Campaign Personalization Rules
- Extension to Personalization Java APIs supporting page operations with custom application objects

- New Configuration task for integration of Unica Campaign segments with DX Personalization Rules
- PZN-UI Augmentations

## Embeddable content and asset pickers

- Search, filter and pick an asset from the DAM using picker
- Upload a new image into DAM through picker
- Replace the existing image of a page from DAM via picker
- Get the embedded code of an asset to insert directly into any webpage

## OpenLiberty Migration

- Converting POMs using conversion tool and upload the components to OpenLiberty
- Shifting local build from wsbuild to maven
- Running on Liberty that can be previewed via a browser, JSR-286-compliant portlet
- able to render, via a browser, JSR-286-compliant portlet when deployed to it.

## Kubernetes

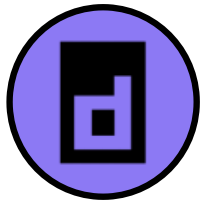
- Enhanced configurable log support for HA Proxy
- Option for entitled customers to download HCL DX 9.5 Docker images from HCL Harbor
- Entitlement checks
- Kubernetes deployment Pre-requisites check
- Sizing guidance for DX 9.5 Kubernetes deployment
- Move credentials to Kube secrets to harden security
- Helm Config Updates
- Digital Asset Management Plugin extension option, updates
- Option to configure the Timezone in chart
- Persist the cw\_profile on connect

## DX Sirius (2023) – Highlights



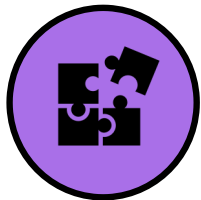
### **Content & Content Reporting**

Headless-first content authoring UI & bulk search/update/reporting.



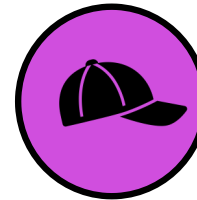
### **Kubernetes & Liberty**

Production readiness, currency. DX OpenLiberty customer preview.



### **Developer Consumability**

CLI enhancements, new APIs, Volt MX integration, samples (Maven, Gradle), training & education



### **AI Authoring Assistance**

Custom built models for keyword generation, summary generation & tone analysis



### **Unica Integration**

Leverage Unica segmentation to tailor UX delivered by DX

# Connections Juniper (2023) - Themes

## Data Privacy

Support GDPR regulations to acknowledge a persons' right to access and erasure of data



## Community Lifecycle

Guide the community through its lifecycle from draft to live then archive



## B2E services

People, activity stream and community services on the DX platform



**Connections powers your people**



## Wiki Approvals

Support for publishing approval workflows within wikis



## DS integrations

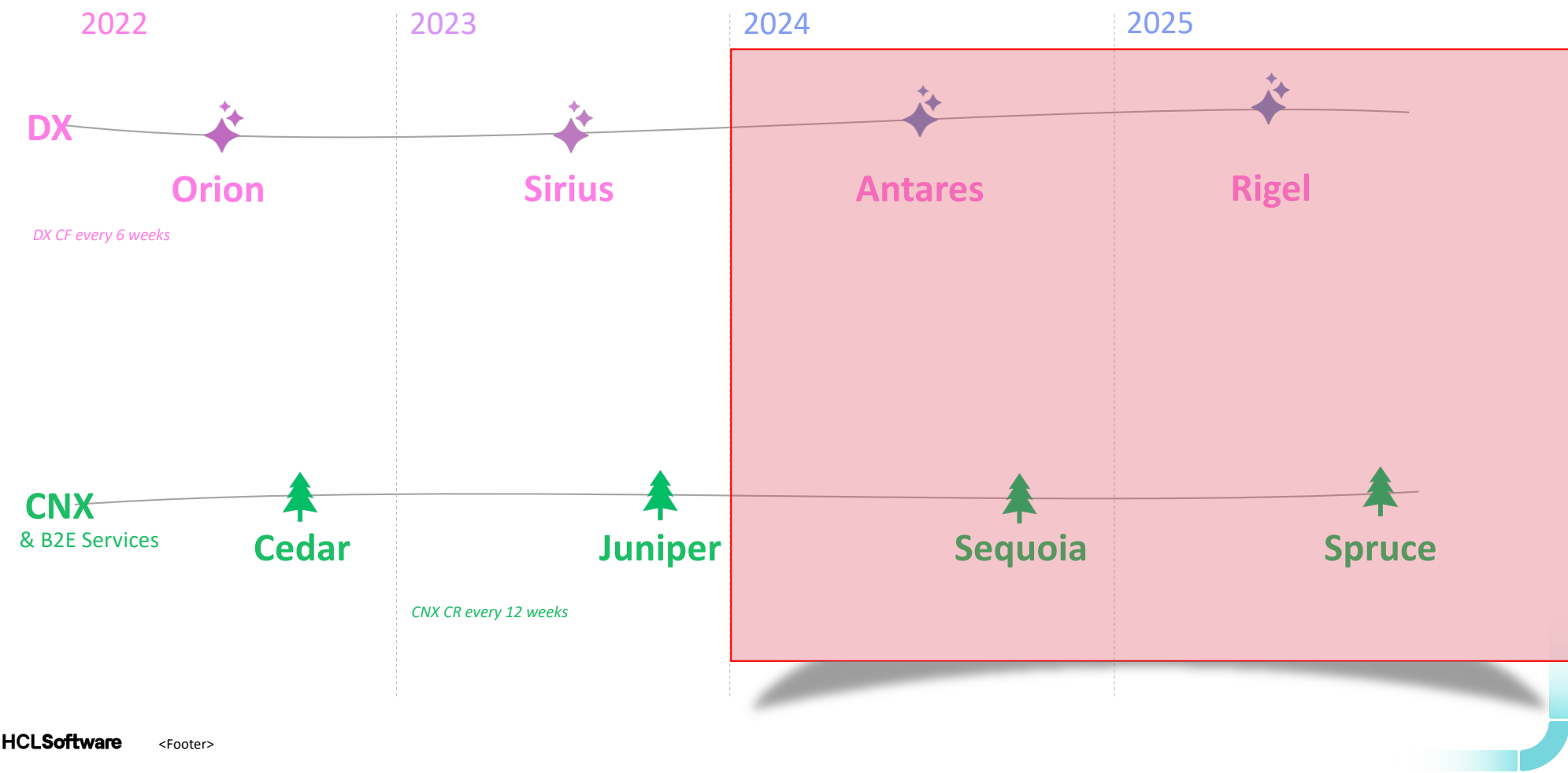
Integration with the latest Leap, Sametime, Verse & DX



## Velocity

More frequent, smaller releases to reduce the risk and cost of staying current

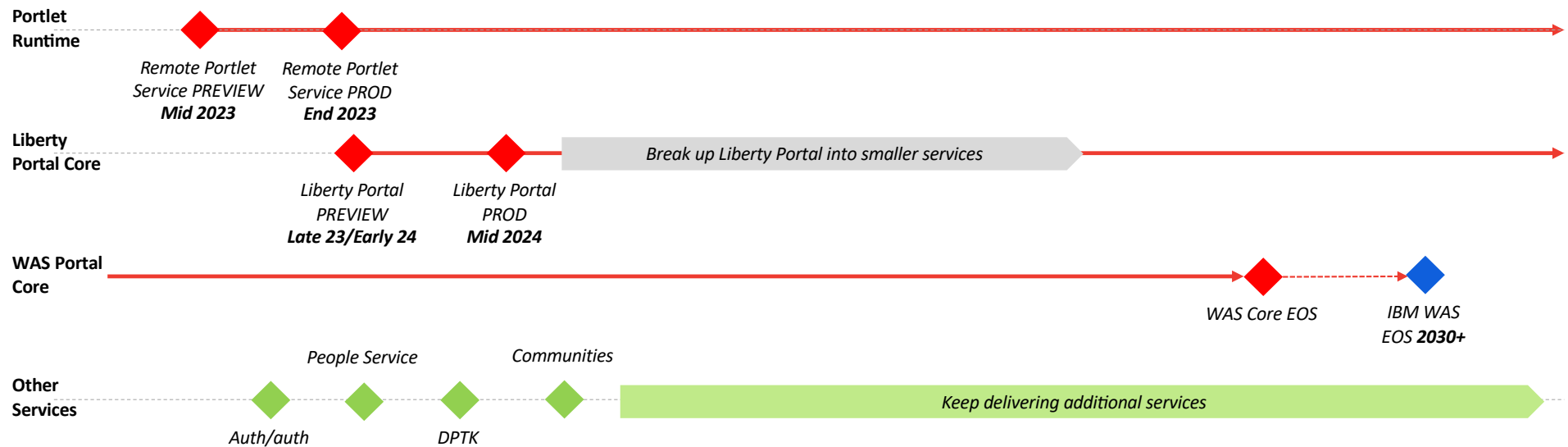
# Future milestones



# Our strategic platform is Kubernetes

...but how will we get there?

# Kubernetes Transition Roadmap



↑ ↑ **Customer migration projects to Kubernetes deployment** ↑ ↑

*DX Migrations might be direct to Liberty Core or via WAS Core, depending on circumstances.*

*Early communication for max migration notice – aim for customer migrations to peak 2024-26.*



## Focus on People – contextual collaboration without silos

- Extend reach to a wider set of use-cases (extranet, applications, B2B...)
- Extensible Communities
- “One stream to rule them all” - Open and expandable event stream
- Creating people-connections across apps



## DX & Connections in FY24 and beyond

**B2E is a key use case, and HCL scooped #1 in Gartner DXP MQ**

### Community Focus



Enhance community management and improve key applications by enhancing core product features.

### Better together



Deliver an integrated and secure collaboration platform by bringing the latest Leap, Sametime, Verse and DX products to Connections.

### Path to B2E



Customers build engaging employee experiences by bringing the Connections DNA to DX-managed sites via new common services.



## Keep Your Ideas Coming

### DX Ideas Portal (Aha)



<https://dx-ideas.hcltechsw.com/>



Search the forum to see if your idea already exists.

Vote for any ideas and add any additional comments that you may have related to that idea.



If your idea does not already exist, create a new idea and format your idea like:

*"As a <insert role>, I would like to be able to <insert action> in order to <insert need>."*



Create as many ideas as you'd like, but remember to keep each idea, separate.

Do not create idea that consists of more than one request for enhancement.



# DXERS.UG

the DX User Community

What new capabilities are important?

Do you need help with Kubernetes?

What were you hoping to see and didn't?

Join on Discord: <https://dxers.ug>



Let's talk!

