



BO42/1

UI Modeling using VC and Web Dynpro Today and in Future

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**Creating the
Future**

SAP DKOM'06

Introduce the high level architecture and capabilities of SAP's UI modeling technology

Illustrate the UI-modeling process

Outline the future convergence of the given approaches

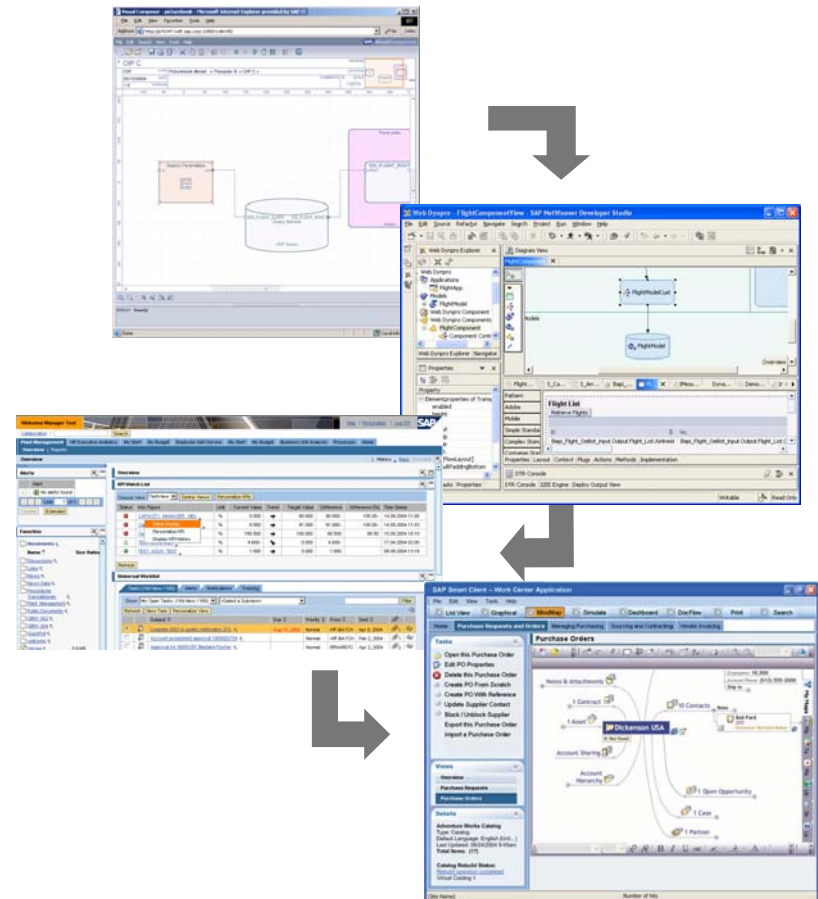
SAP's UI modeling strategy centers around guiding principles

Visual Composer (VC) and the underlying models are SAP's strategic approach for composing UI applications.

Web Dynpro (WD) is SAP's strategic UI runtime environment for UI applications and implementation model for UI building blocks.

The **Portal PageBuilder (PB)** and **Portal Platform (PP)** is the environment where application UIs are aggregate to comprehensive solutions.

SAP's UI modeling strategy requires to add support for different **clients**.



It is not about Web Dynpro versus VC but Web Dynpro and VC

Visual Composer offers 2 dialects for modeling UI applications. These are **GML** (Graphical Modeling Language) and **VCL** (Visual Composition Language)

- VCL is the Pattern modeling approach for ESI core services.
- GML is the Fast Track FreeStyle modeling approach.
- The VCL & GML dialects are conceptually similar and share many details.
- Conceptually both approaches offer plug-in capabilities for Web Dynpro components.

Web Dynpro serves as the runtime framework and implementation model.

- Building Blocks and frameworks are implemented on top of Web Dynpro technology.
- Runtime Interoperability is possible through WD Component Interfaces.
- Support for Custom Building Blocks in VCL and Eclipse.



Demo

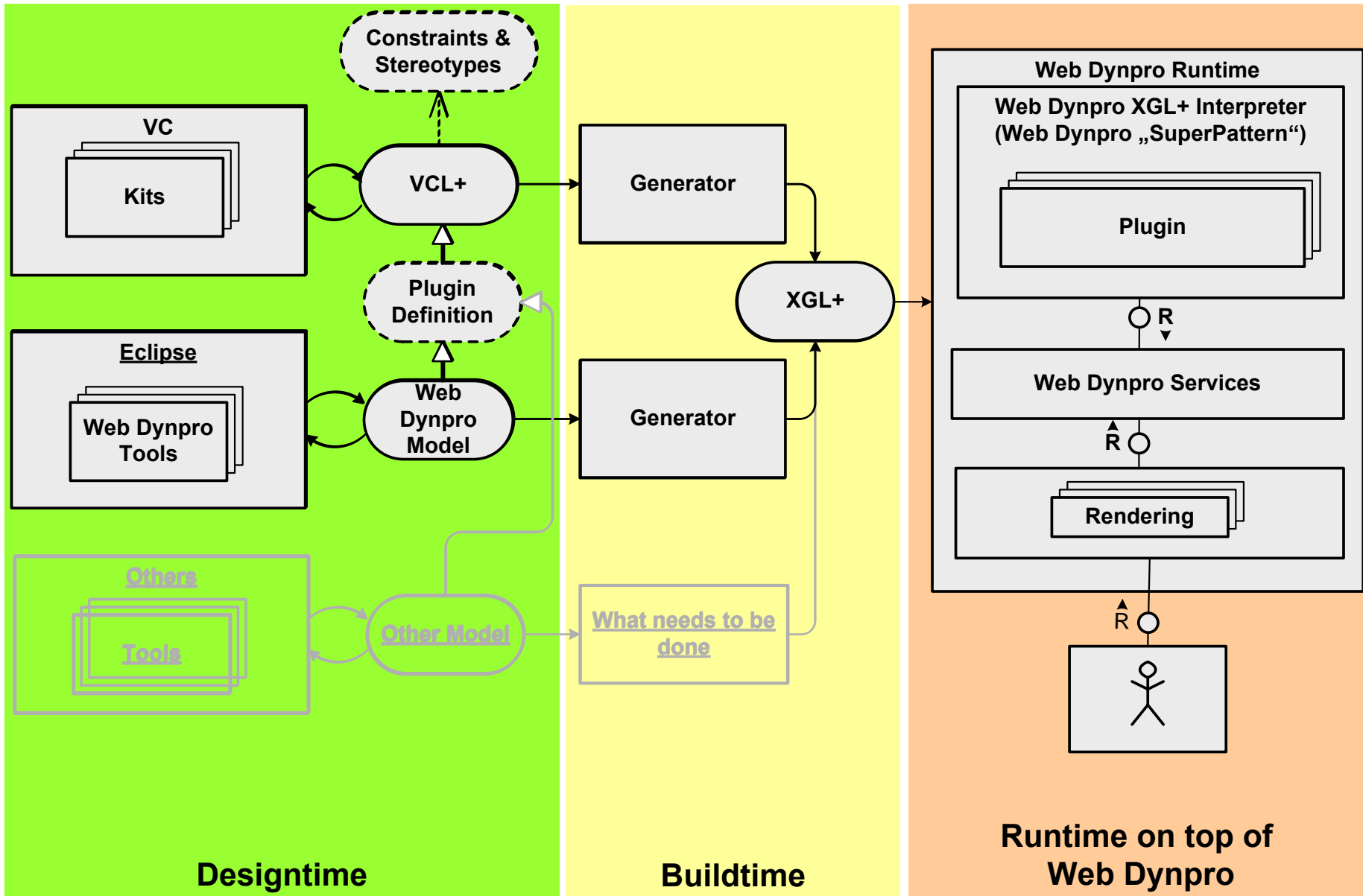
A diligent and careful consolidation of overlapping concepts is needed in order to exploit the best of the given approaches. A “convergence project” has already started

The current solution having VCL, GML and Web Dynpro as a UI programming model creates a set of challenges.

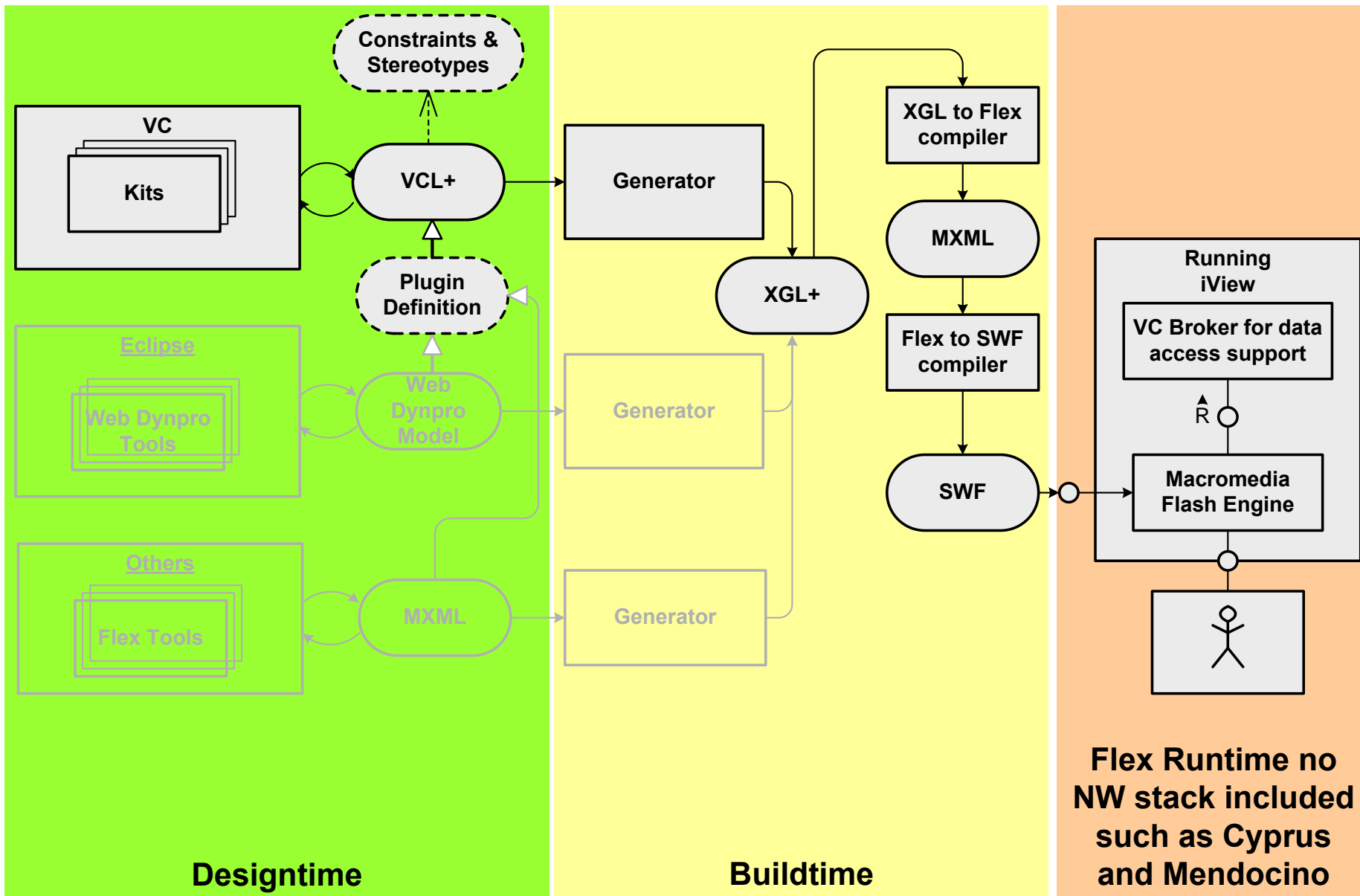
Examples are

- **Different models & VC dialects**
- **Interoperability**
- **Reuse of UI building blocks**
- **Tool Strategy**
- **Improve "Model to Code" and "Code to Model" Scenario.**
- **Homogenize the UI especially for generic services like “Personalization”, “Configuration”, “Value Help”, “Error Handling”, etc.**
- **Smart Client Strategy**

Convergence Target Architecture (1)



Convergence Target Architecture (2)



Enterprise Services Architecture

→ **ESA Today@SDN**

<https://www.sdn.sap.com/irj/sdn/developerareas/esa>

SAP Architecture Series 2006

→ [**Corporate Portal at PTG → Architecture → Media Library**](#)

SAP NetWeaver

→ **SAPNet quick link /netweaver**

<http://intranet.sap.com/netweaver>



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