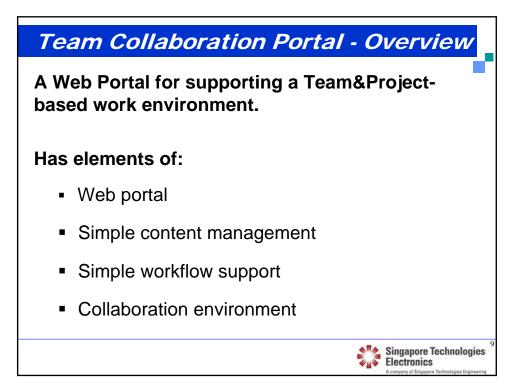


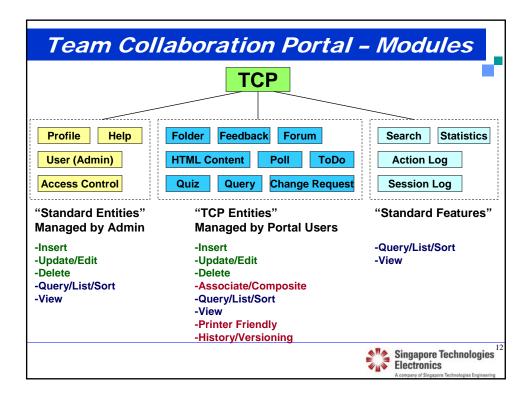
## indicate WPs SJ5

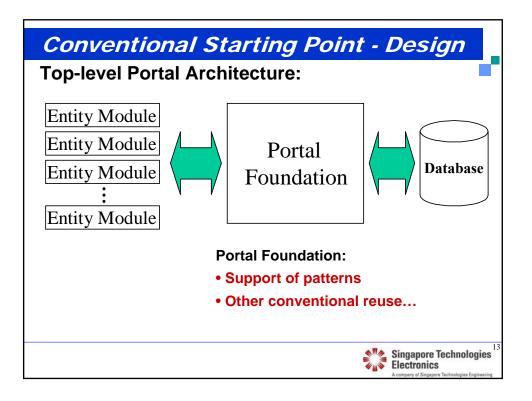
- used internaly at ST Electronics - business products (SARS) Stan Jarzabek, 8/8/2005

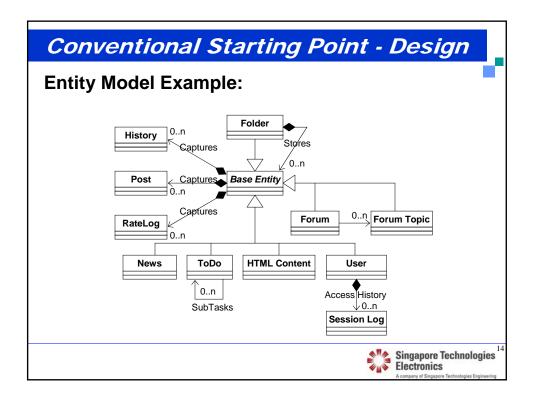


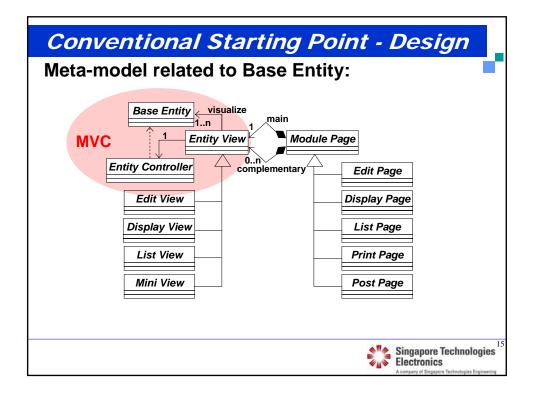
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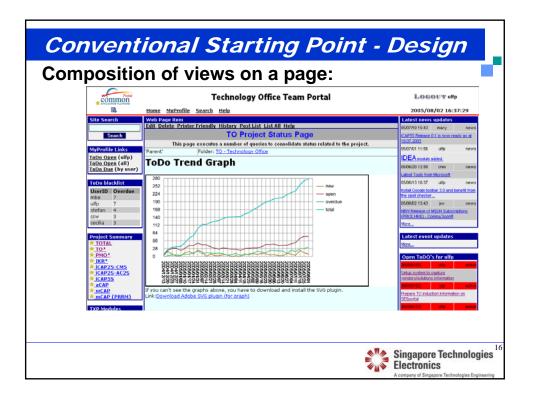
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rch	Edit To Do	ofile Search Help	2005/08/06 23:07:5
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5		Design new induction training package for TO.	
and the second		To include SQA, QA, Eva and all other parts of TO.	
(PRRM)		This can be considered a replacement package for pCAP overview training.	
ules			
or & Minutor		Narration need to be added before this is considered as completed (see todo 712)	

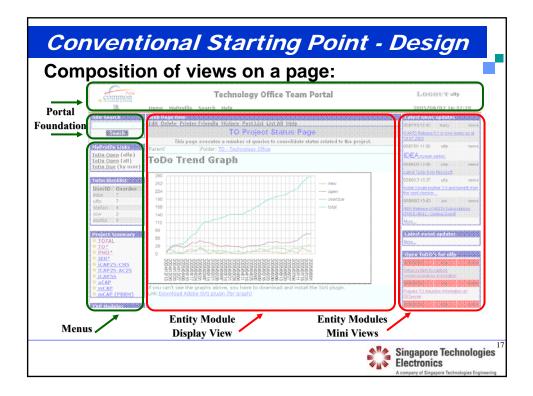


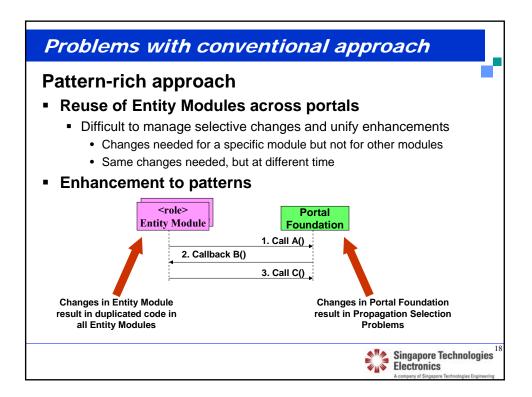


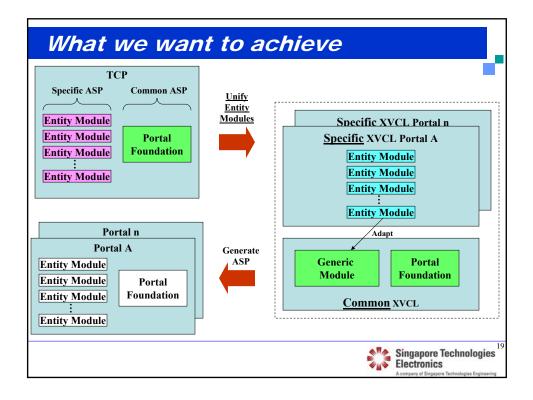


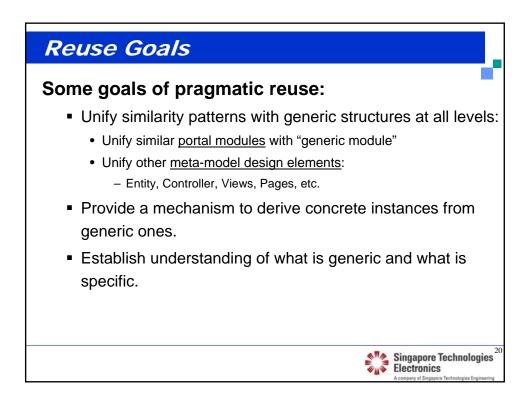


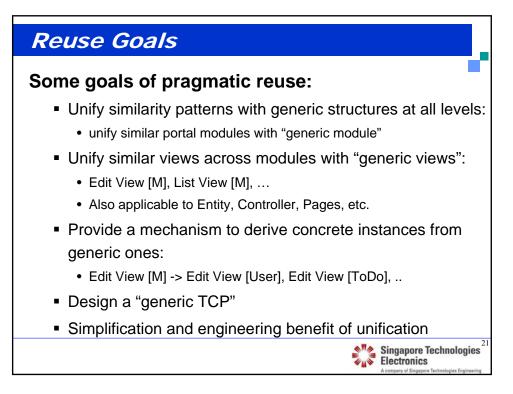


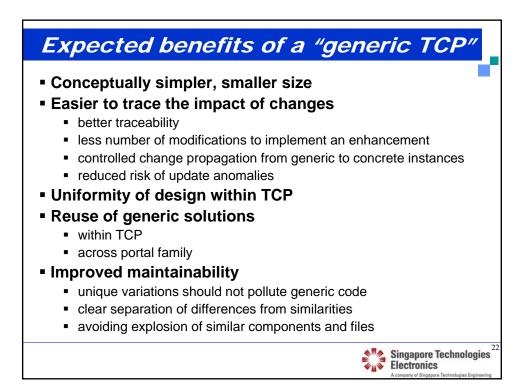


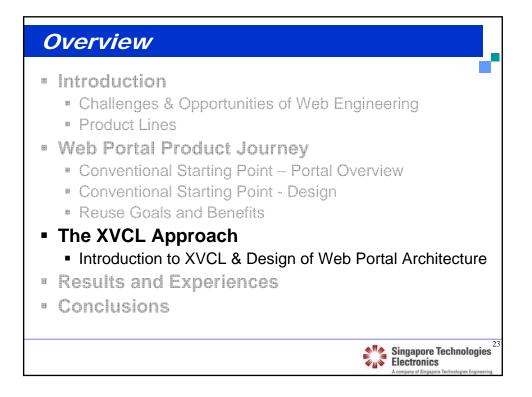


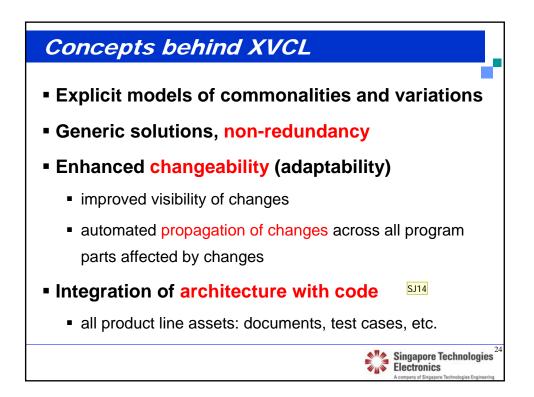




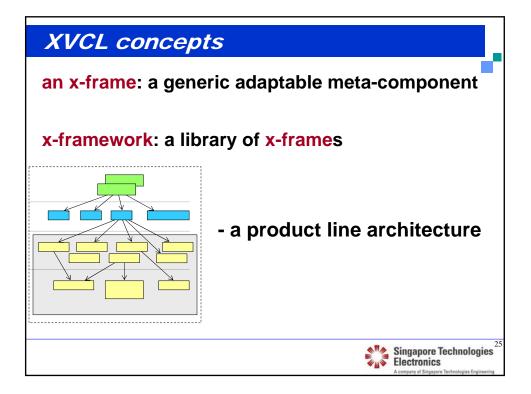


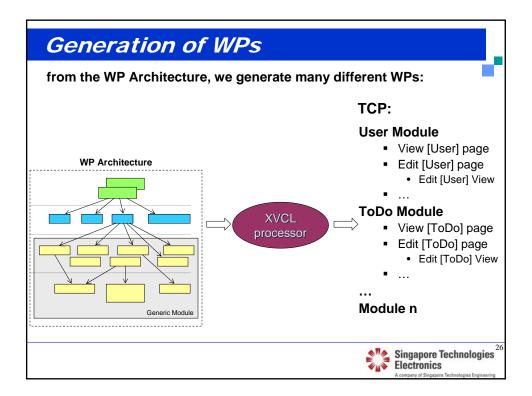


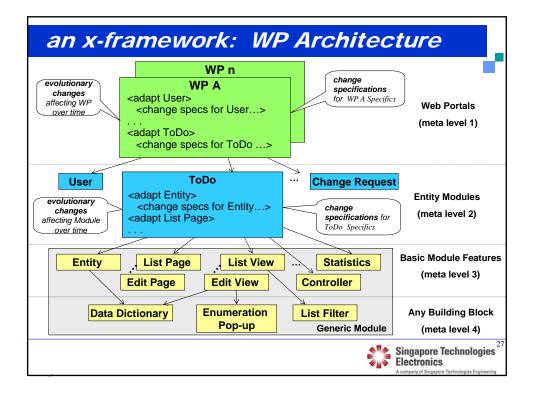


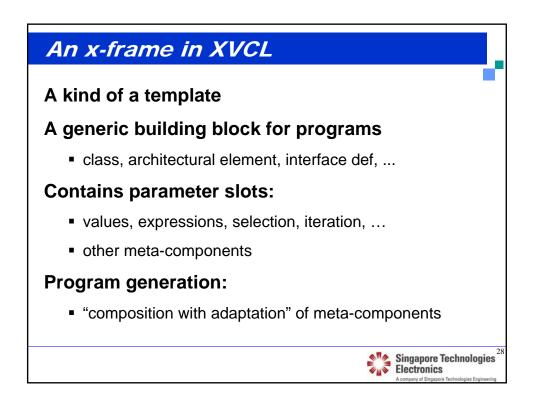


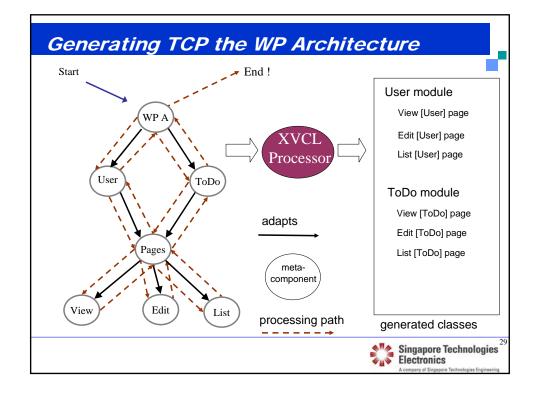
## SJ14 delete? Stan Jarzabek, 8/8/2005

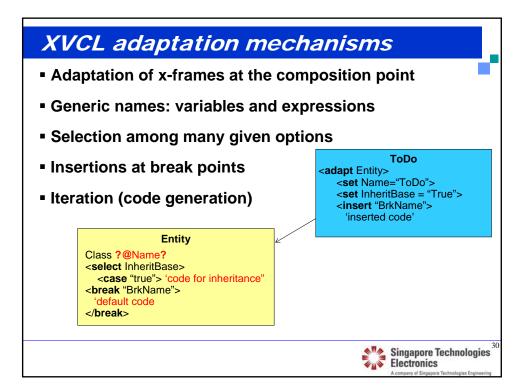


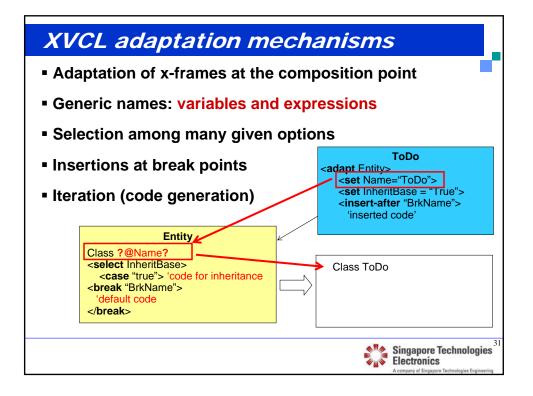


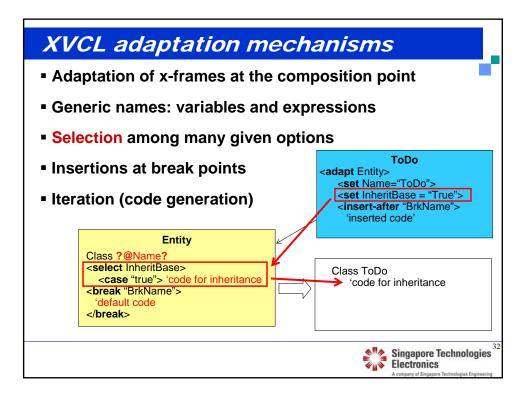


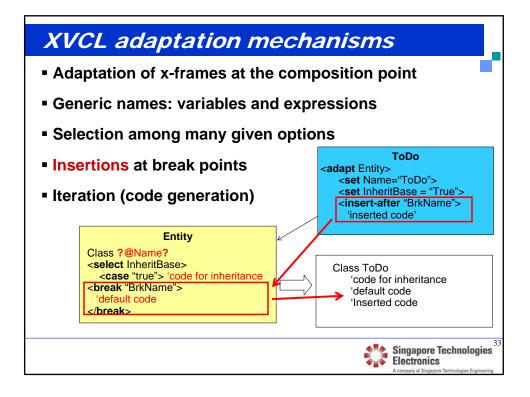


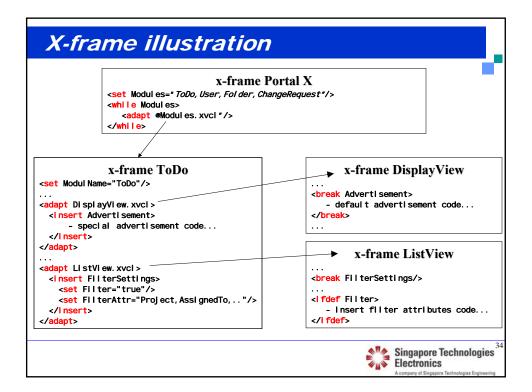


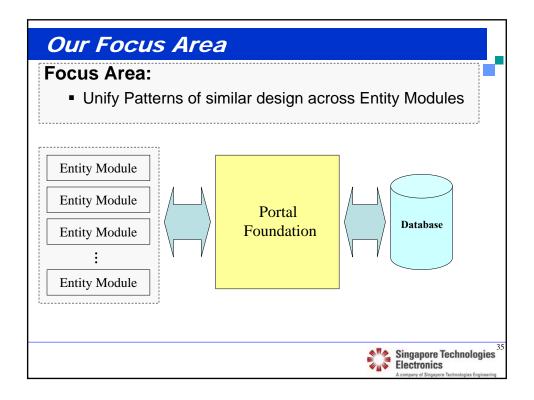


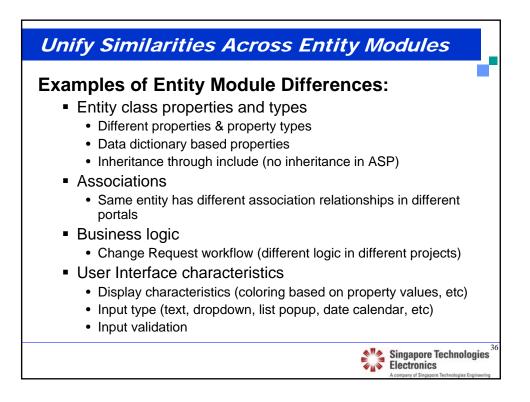


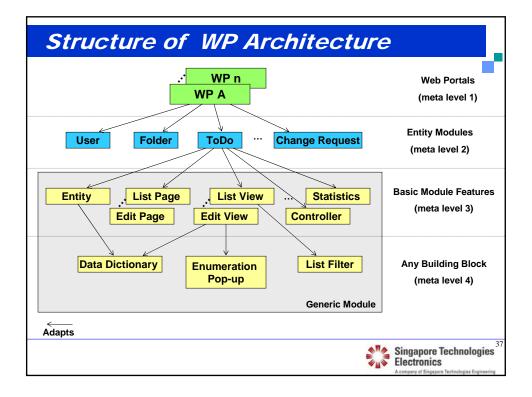


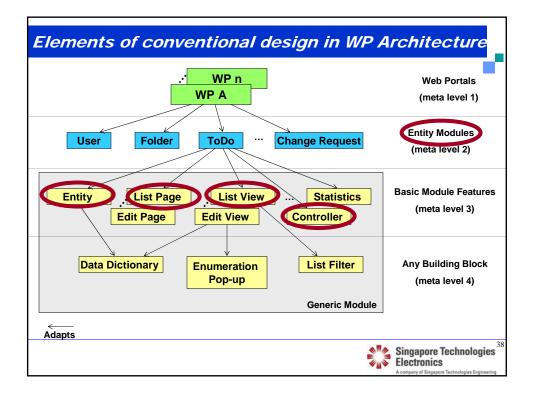


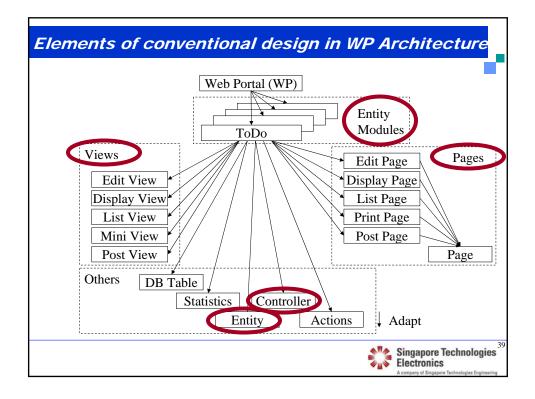


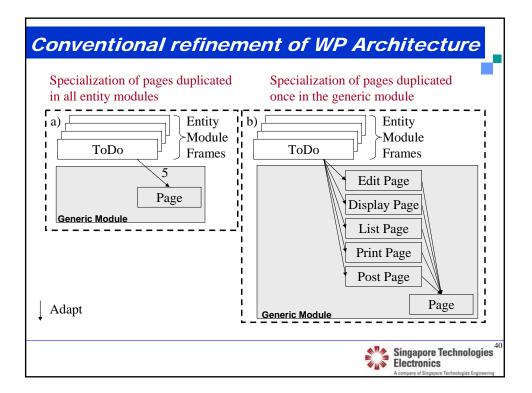


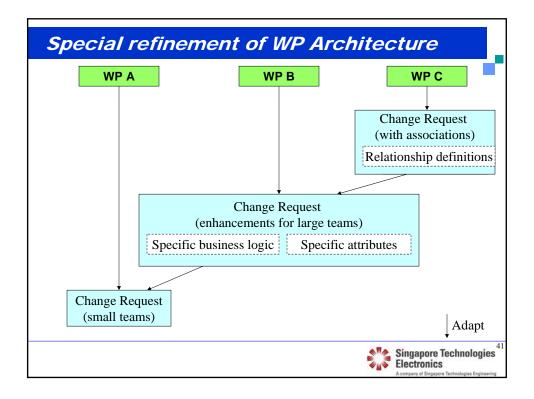


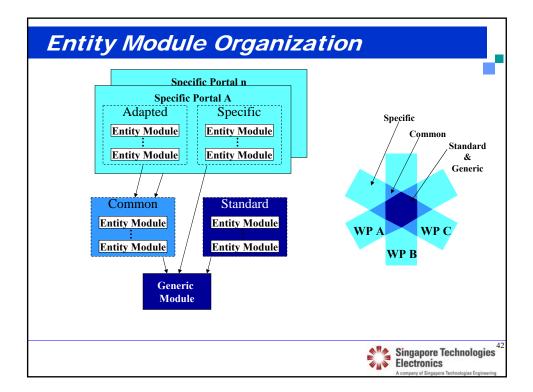


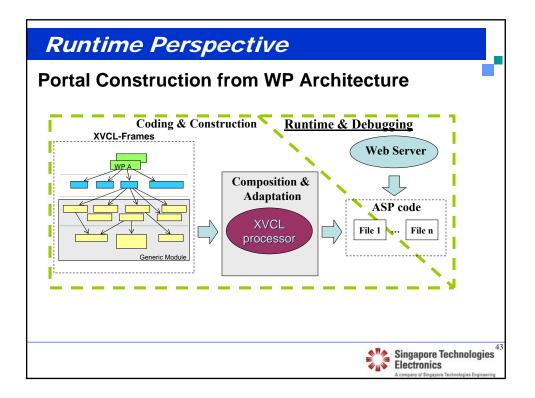












	Introduction
	Challenges & Opportunities of Web Engineering
	Product Lines
	Web Portal Product Journey
	Conventional Starting Point – Portal Overview
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	Reuse Goals and Benefits
1700 1700	The XVCL Approach
	Introduction to XVCL & Design of Web Portal Architecture
	Results and Experiences
	Conclusions
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Results and			
Code Lines befo			
	Ļ	Ļ	
	Original TCP (ASP)	WP Architecture (XVCL)	Generated TCP (ASP)
Portal Foundation	15180	14021	16401
Specific Entity Modules	16322	1577	30474
Generic Entity Module	N/A	4119	N/A
Σ	31502 -3	<b>37%)</b> 19717	46875
			Table 1
			Singapore Technologies Electronics A company of Singapore Technologies Engineering

Results and Experiences (2)

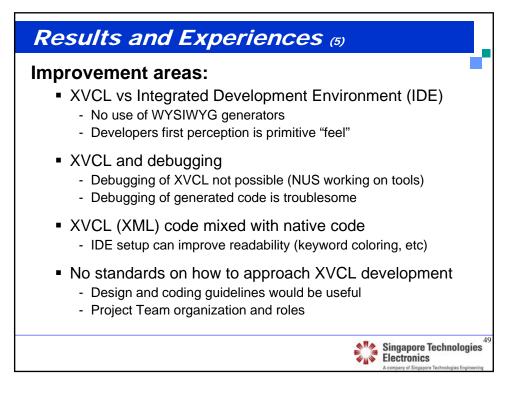
## Code Lines before and after application of XVCL:

Entity Modules – Our focus area for unification of similarities

Entity Module	Original TCP (ASP)	WP Architecture (XVCL)	Generated TCP (ASP)
Help*	722	133	1490
Web Page	514	50	1428
User	755	54	1717
ToDo (Task)	1295	147	2429
Σ	16322 -9	1577	30474
Generic Entity Module	NA	4119	NA
Σ	16322 -6	5696	30474
			Table

Code L	ines – Po	ortal Spec	ific:	
Portal		Portal specific		
Abbrev.	Reused*	XVCL**		
Apol	21	0	9	617
Cq	17	0	3	271
Csap	18	3	0	157
Demo	18	4	1	958
Ecap	19	3	4	363
Feptp	18	7	0	439
Gered	21	0	10	665
Eses	20	0	1	120
Ework	19	3	4	363
Σ	N/A	N/A	N/A	3953
	andard Modules ecific Modules +	other specific code	•	Table

Results and Experiences (4)					
Code Lines – Po	ortal Pro	oduct Line:			
Item	XVCL	Remark			
Portal Foundation	14021	(from Table 1)			
Generic Entity Module	4119	(from Table 1)			
Common Entities	2481	General Entities shared across WPs			
Portal Specific Code	3953	(from Table 3)			
Σ	24574	Total for 9 portals			
Original Portal 31502	<u>WP</u>	Architecture (9 Porta 24574			
		Singapore Technolog			



0	Overview
	Introduction
	<ul> <li>Challenges &amp; Opportunities of Web Engineering</li> <li>Product Lines</li> </ul>
	Web Portal Product Journey
	<ul> <li>Conventional Starting Point – Portal Overview</li> </ul>
	Conventional Starting Point - Design
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8000 8000	Results and Experiences
•	Conclusions
	Singapore Technologies

