

The real home multimedia makes you Omile

Forget the Levels, Focus on the Business

4 Secrets of Successful Improvement

17 September 2004 Dong-Hwan Cho Process Improvement Manager HUMAX Co., Ltd.

Overview of Presentation



Goal of This Presentation

To share Process Improvement Experiences based on Business Context not CMMI models

Brief Summary of This Presentation

From 6 years of my personal experiences, I realized 4 Secrets of Successful Improvement. I'll explain each of them and show a Real Case Study.

Contents of This Presentation Part I Background Information Part II 4 Secrets of Successful Improvement Part III Case Study (Defect Tracking Process)

(05 min) (15 min) (20 min)



Part I Background Information



Brief Overview of HUMAX

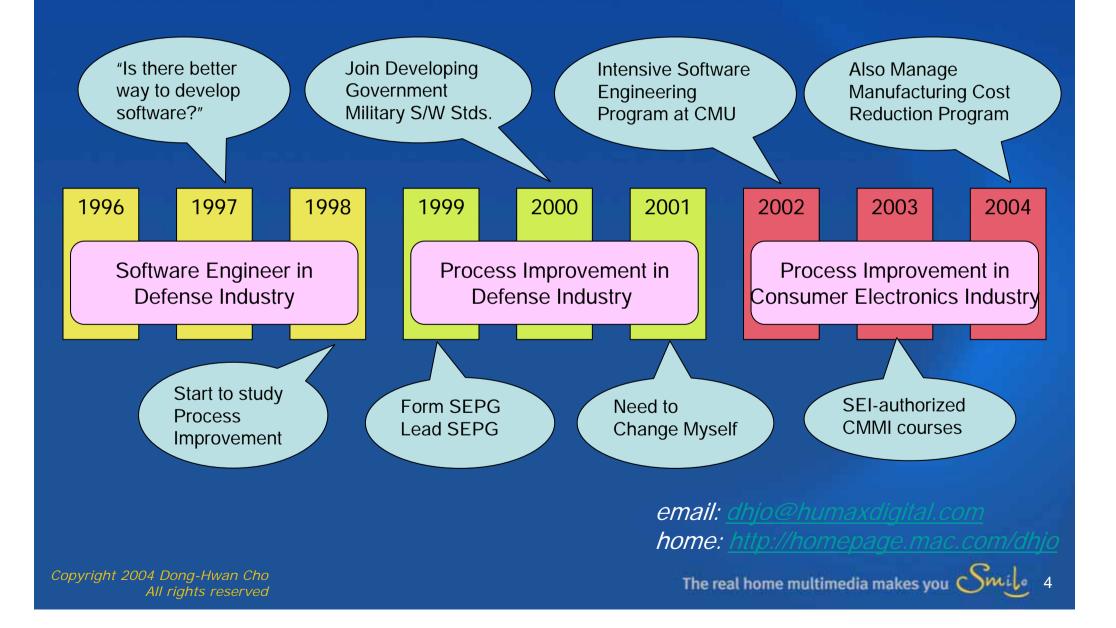


Founded in 1989 First DVB STB Maker in Asia in 1996 Listed KOSDAQ in 1997 \$450M revenue in 2004 \$1,000M revenue by 2006



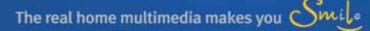
Brief Overview of Myself





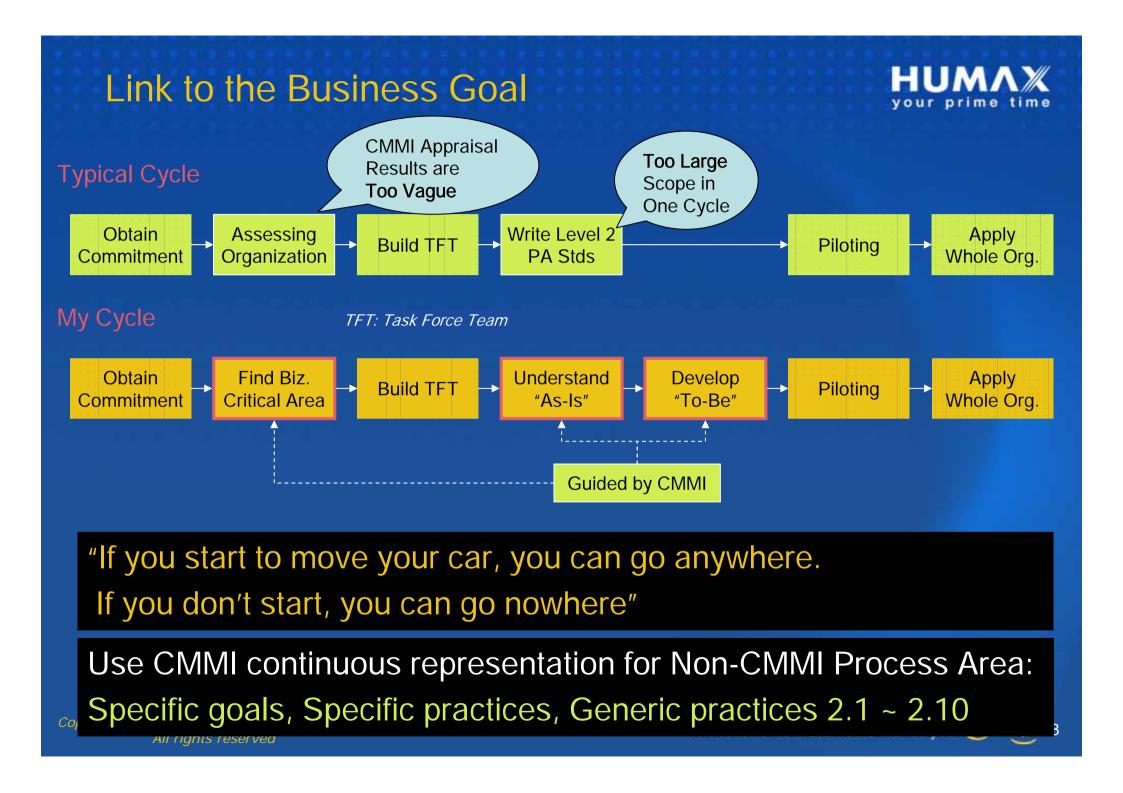


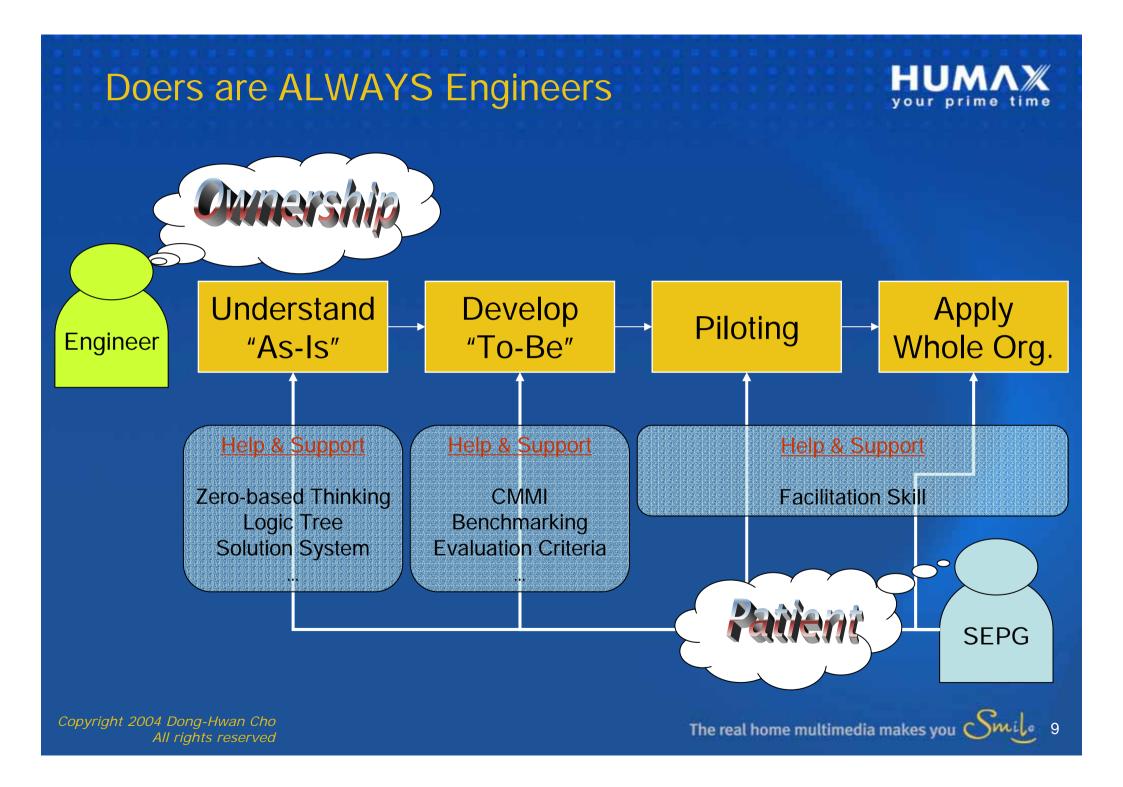
Part II 4 Secrets of Successful Improvement

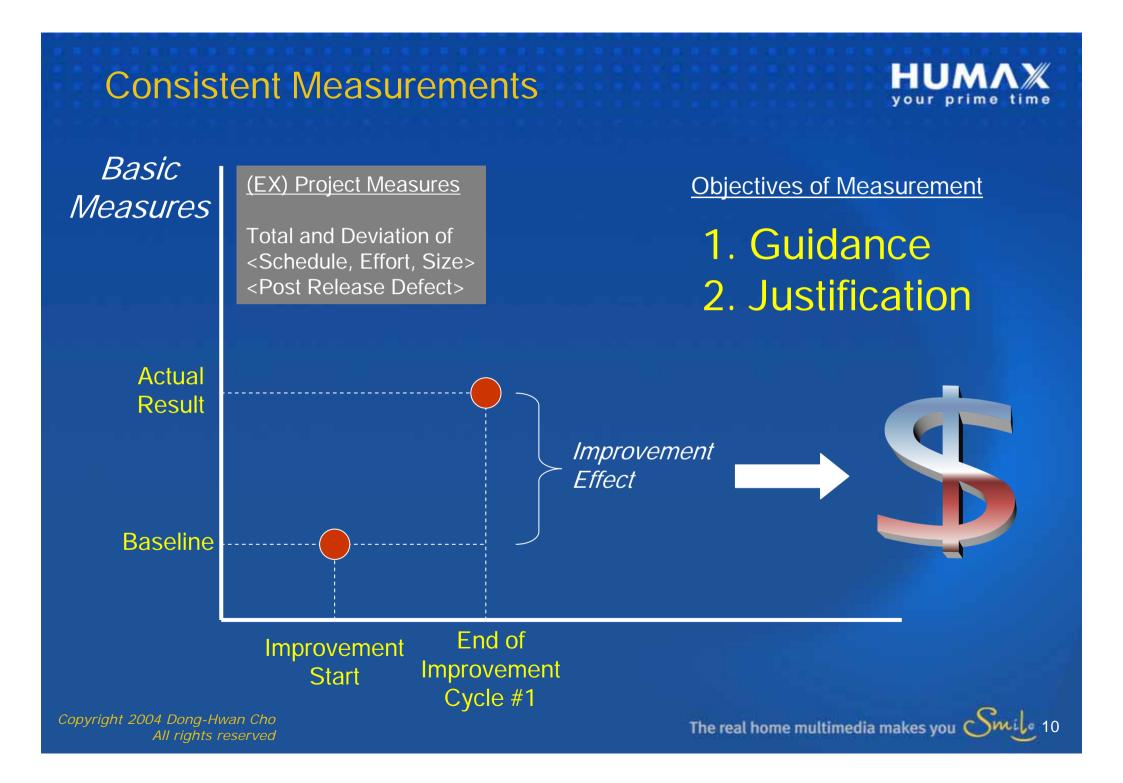






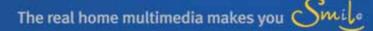








Part III Case Study <Defect Tracking Process>



Startup Information



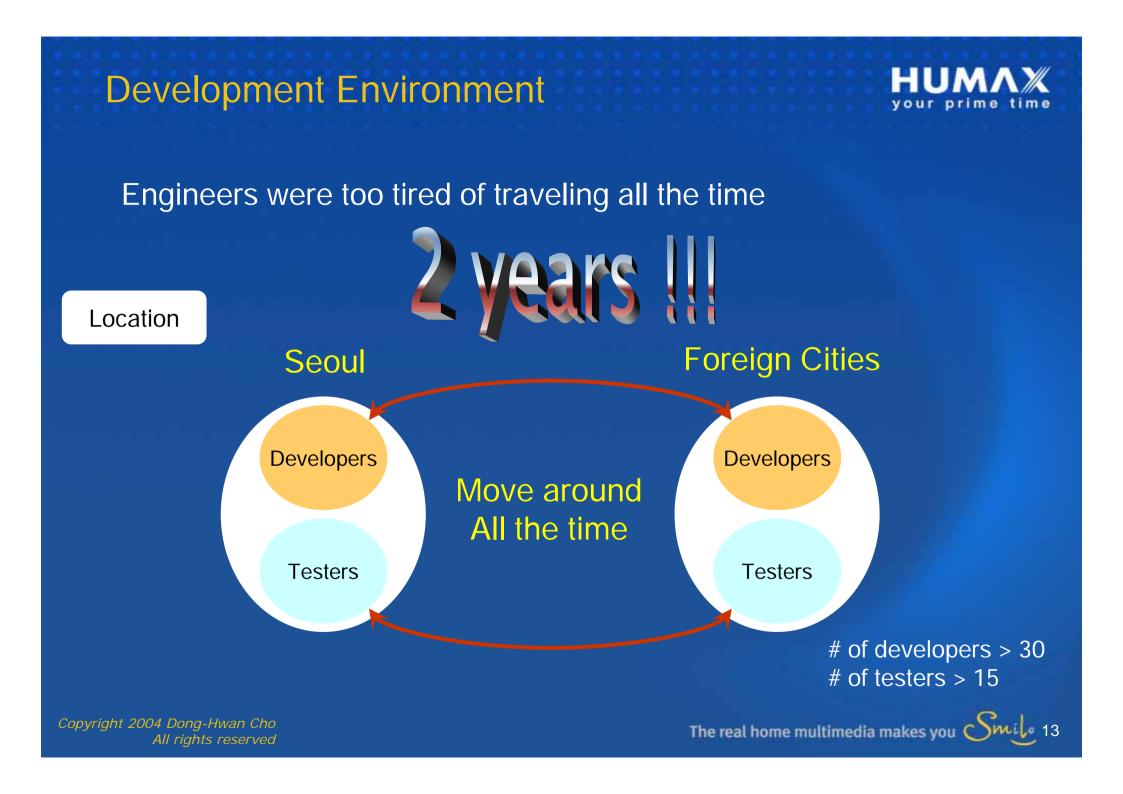
Mid 2001, HUMAX

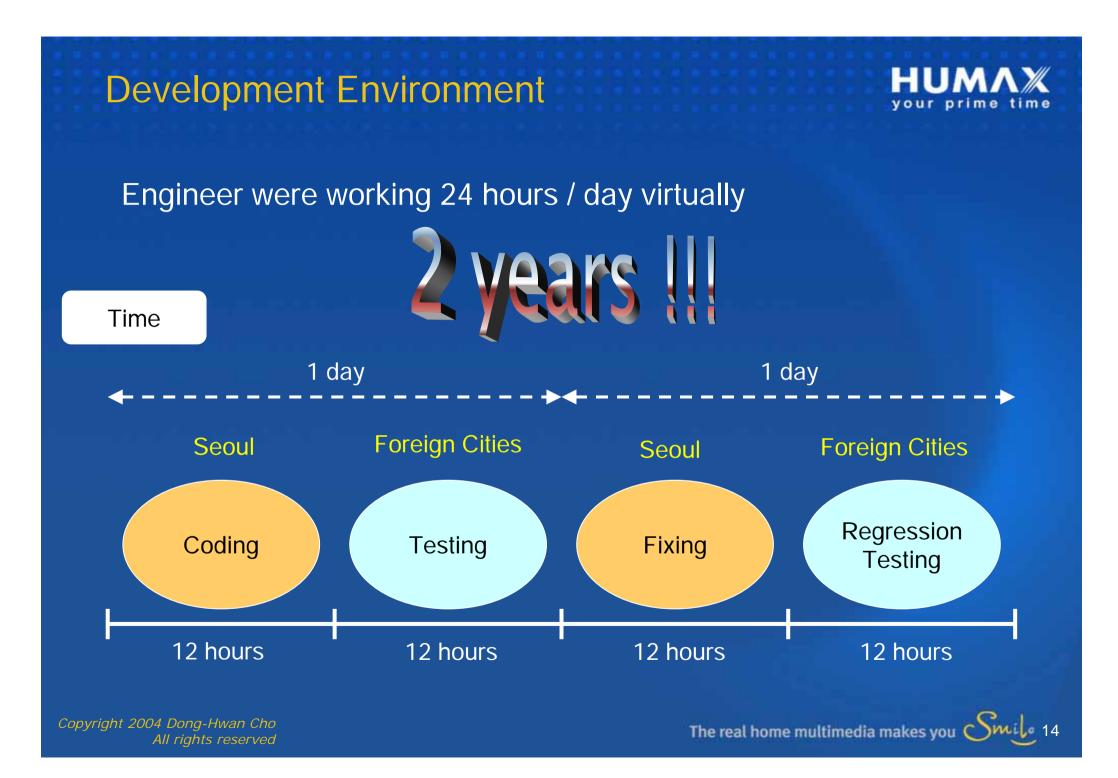
Internal Force

"We need more systematic approaches" (we are not anymore venture)

External Force

"We have very critical project for big market" (about half of total revenue) Need to do something to satisfy two forces



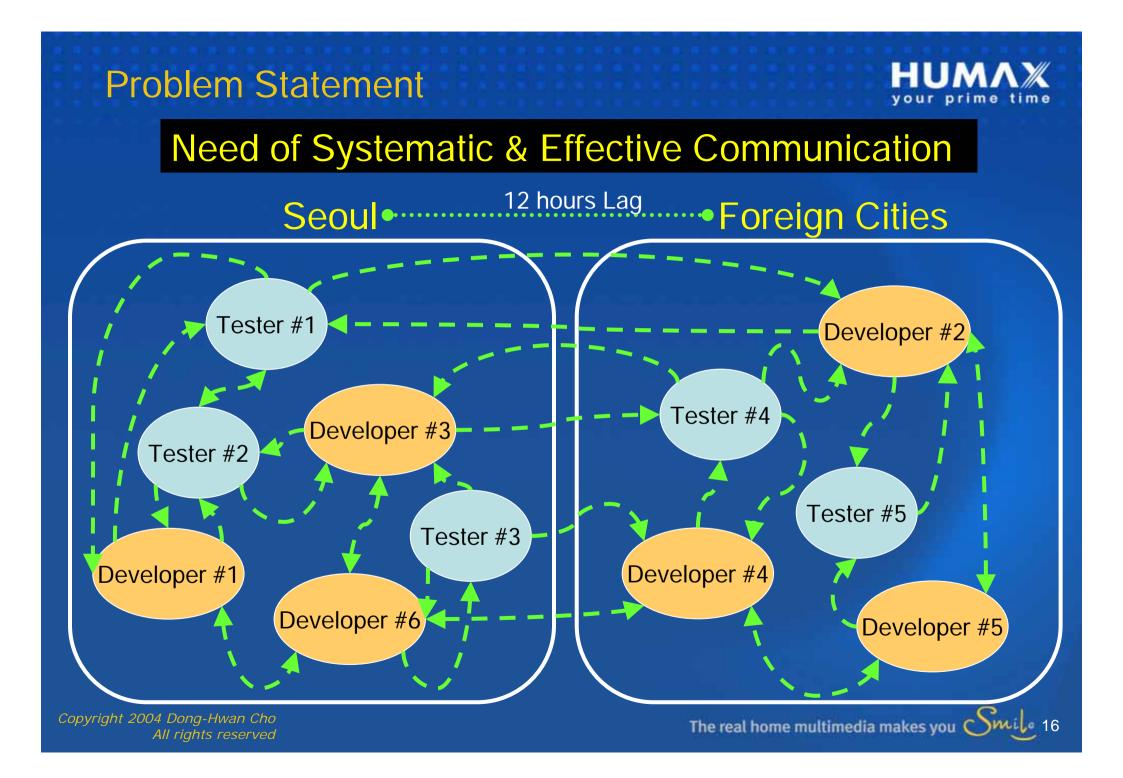




We Expect

Burn-Out Engineers with Broken Social Relationships

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Problem Statement

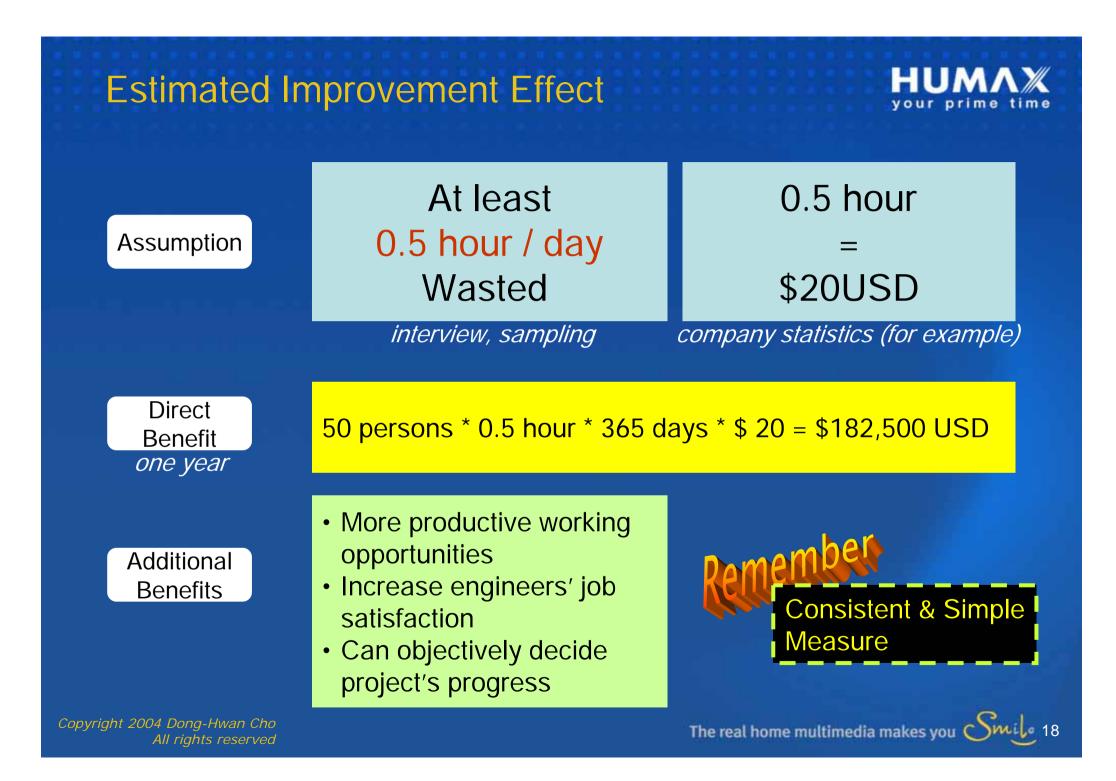


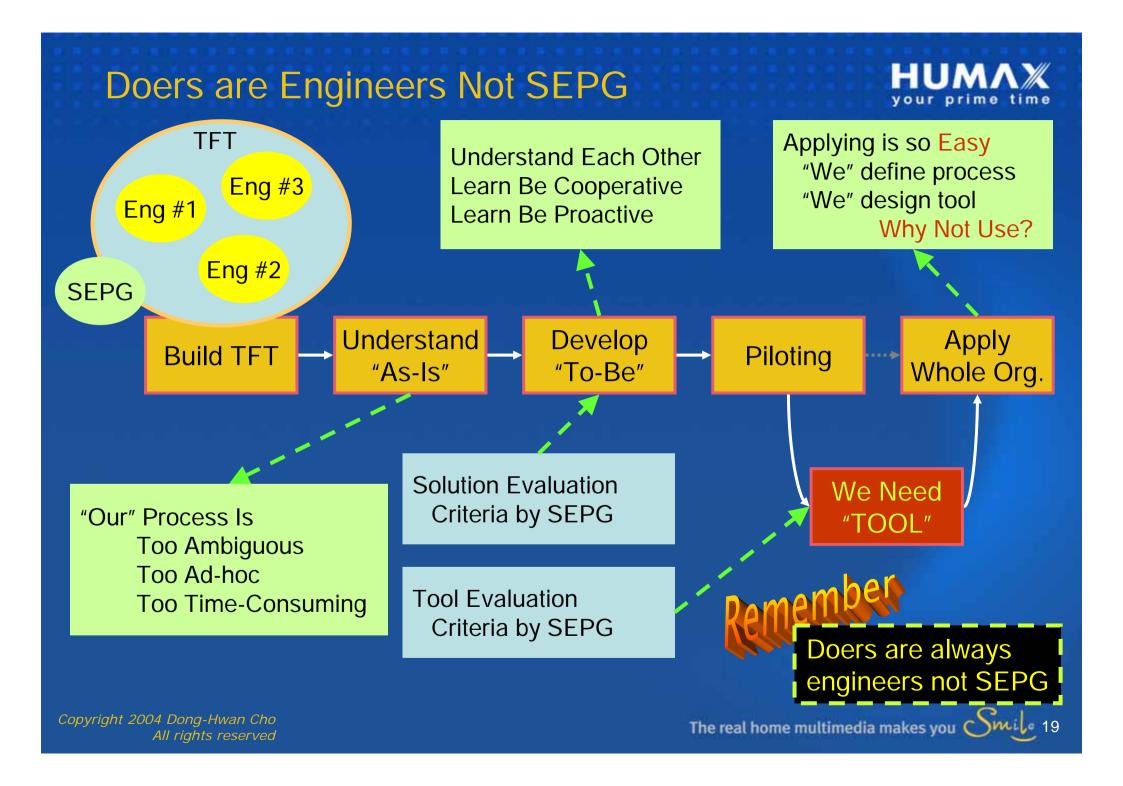
Huge Amount of Time & Efforts were Wasted Engineers: Huge time & efforts were wasted to identify & track each issue's status Managers: Huge time & efforts were wasted to identify & track project's status

Most Business Critical Area

Small enough for first success Strong link to business goal

"Systematic & Effective Defect Tracking" (survival issue) Not "Project Planning" or "PPQA" in CMMI Level 2





Actual Improvement Effect



Not only one project, all projects in the company use the same process and same tool

One year savings:

(Est.) 50 persons * 0.5 hour * 365 days * \$20 = \$182,500USD
(Act.) 250 persons * 0.5 hour * 365 days * \$20 = \$912,500USD
Additional Benefits:

Estimated Mor

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More productive working opportunities
Increase engineers' job satisfaction
Can objectively decide project's progress

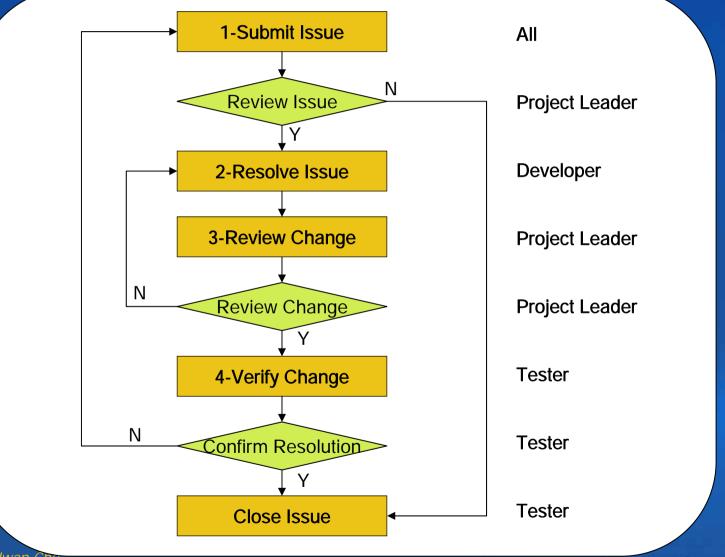
Self-confidence

Believe in process improvement

Foundation of Company-wide Process Improvement

The real home multimedia makes you Omile 2

Defect Tracking Process (HUMAX)



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your prime



Screen Shot of Sample Issue List (Web version)

출 DevTrack Web: user PI 팀(login name: pi) of "TOTORO" project - Microsoft Internet Explorer														
파일(<u>F</u>)	파일(E) 편집(E) 보기(⊻) 즐겨찾기(A) 도구(I) 도움말(빈)													
		Owner: *All Members 🔹 Status: Open 💽 Search: {No Query String} 💽 😋 🖸												
K		Issues: 31	- 40				Total: <mark>60</mark>							
	No	💙 이 슈빈호	계목	봫곕모쮤	진행상태	Current Owner	Date Assigned							
	€ 31	TTR32	1-DC- 1-미슈발행상 3 32 [major]視聽制限=>日番組限度額設定=>not stored 4000 태 3											
	232	TTR31	[major]視聽制限=>視聽可能 年齡 設定 =>메뉴상의 설정값으로 동작되지 않음	정, 준용	07/20/04									
	23	TTR30	[Major]お好み設定=>all delete service=>?る key=>hang-u	1 - 미슈발행 상 태	정, 준용	07/20/04								
	1	TTR29	[Major]B-cas card drew out and it put in =>scramble or hang-u	2 - 작업할당 상 태	우, 승갑	07/29/04								
	25	TTR28	[Major] Display format setting 16:9 =>Detail Info/EPG/Portal =>PIG Display 2picture	1 - 미슈발행 상 태	정, 준용	07/20/04								
	6	TTR26	EPGL menu같은 still picture 사용하는 메뉴 진입시 잠깐 반짝거림. 1 - 0 수 발행 상 정, 준용 4000 태 4000 태											
	≥ 237	TTR25	Guide Table HD, SD에 따른 출력 구분 없음 예)HD출력에서는 최대 6채널, 4.5 SD출력에서는 4채널 4시간까지 표기 가능인데 현재는 4시간 6 채널로 동일 출력됨.	1 - JC- 4000	2 - 작업할당 상 태	백, 재경	06/07/04							
	🄁 38	TTR24	숫자키를 이용한 채널 튜닝시 2Digit만 Display되는 문제.	1 - JC- 4000	2 - 작업할당 상 태	최, 안식	06/07/04							
	1	TTR23	채널리스트에 존재하지 않는 채널 tunning시 메시지 처리 되지 않아야 함.	1 - JC- 4000	2 - 작업할당 상 태	최, 안식	06/28/04							
	10	TTR22	A/V play중 카드 제거시 카드 삽입 요구하는 메시지 출력 상태로 나오나 다시 카드를 삽입시 인식하지 못하고 Descramble 되지 않는 현상	1 - JC- 4000	2 - 작업할당 상 태	우, 승갑	06/28/04							
K		Issues: 31	- 40											



Screen Shot of Sample Issue History (Web version)

UE LIST 📑 DETAIL 🗲 GO TO	NEW SEPOR	T SETTINGS 🧑 HOME			Q Devi									
슈설명	History													
A이력 Owner and Si Change Hist		7/04 경, 준용 06/07/04 9:49 cr: 0wner:												
부 Sumn nail 슈진달	ary Issue ID: 제목: 이슈상세설명: 작업상세설명:	제목: potal->設定->메인 메뉴에서 하위 항목으로 이동후 다시 ?る(back)동작시 PIG 원래 사이즈로 돌아오는 현상. 미슈상세설명: potal->設定->메인 메뉴에서 하위 항목으로 이동후 다시 ?る(back)동작시 Scaling된 Video 원래 사이즈로 돌아오는 현상.												
슈종료	Current Owner:	최, 안식	진행상태:	2 - 작업할당 상태										
lete	Assigned by:	정, 준용	Date Assigned:	06/07/04										
781 4	Submitted by:	오, 은정	Date Submitted:	06/07/04										
	이슈분류:	1 - 문제점	문제유형:	01 - 화면표현 문제										
	발생모델:	1 - JC-4000	개발단계:	2.4-Stage 2 인증중										
	발생위치:	2 - Application	판정등급:	2 - Major										
	수정일자:	2004-06-11-10-49-28												
Tracking His	I Subinicceu by.	오, 은정 : 06/07/04 10:49:49 potal->設定->메인 메뉴에서 하위 항목으로	미동후 다시 ?る(back)동작시 Scaling	틴 Video 원래 사이즈로 돌아오는 현상.										
	2 Assigned to:	정, 준용	진행상태:	1 - 이슈발행 상태										
		06/07/04 10:49:49	Assigned by:	오, 은정										
	3 Assigned to:	최, 안식	진행상태:	2 - 작업할당 상태										
	Date Assigned:	06/07/04 12:55:49	Assigned by:	정, 준용										

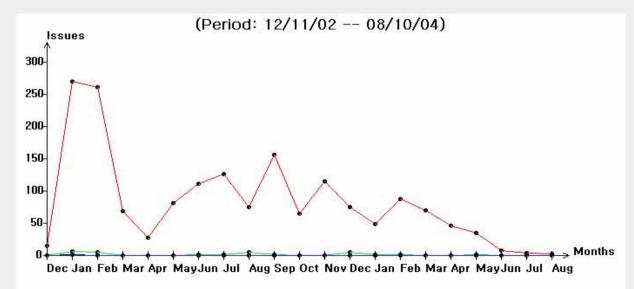




Screen Shot of Sample Issue Trend Chart (Web version)



미슈분류	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total	%
1 - 문제점:	15	271	262	69	28	82	112	127	75	157	66	115	76	49	88	71	47	36	8	4	3	1761	97.6%
2 - 기능 개선:	1	7	5				2	2	5	2	1		6	2	2		1	2				38	2.1%
3 - 기능 추가:		2				1	1			1	1											6	0.3%
Total:	16	280	267	69	28	83	115	129	80	160	68	115	82	51	90	71	48	38	8	4	3	1805	100.0%
Percentage(%):	0.9%	15.5%	14.8%	3.8%	1.6%	4.6%	6.4%	7.1%	4.4%	8.9%	3.8%	6.4%	4.5%	2.8%	5.0%	3.9%	2.7%	2.1%	0.4%	0.2%	0.2%	100.0%	





Screen Shot of Sample Issue Distribution Chart (Web version)



