

Information Systems Specialists



The Modernization Meal

a.k.a. "Burgers, Subs & Pumpkin Pie"

Christopher F. Burns, Sr. GEMKO Information Group cburns@gemko.com

This publication is copyrighted with all rights reserved. Under the copyright laws, this publication may not be copied in whole or in part, without the written consent of GEMKO Information Group, Inc. Under the law, copy includes translating into another language or format.

© Copyright, GEMKO Information Group, 2007. All rights reserved.







RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

Why are we here ?.....

- To set the record straight on what modernization really is, or what it should be
- To invalidate false assumptions which have been made for decades
- To challenge age old wisdom, or in some cases lack of wisdom
- To answer the question, "But how will it improve our bottom line?"
- To NOT get a software sales pitch !!!
- To answer the question "why", not "how"



Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

Why not "how"?....

- Because those who know "how" will always work for those who know "why"
- Because those who know "how" will always have their budgets controlled by those who know "why"
- Because those who know "how" will always be hired, evaluated and fired by those who know "why"
- In short, because those who know "how" will always be at the mercy of those who know "why"



Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

One word, many definitions.....

- "Rip it all out and replace it with Java"
- "Rip it all out and replace it with .NET"
- "I don't care what you do, just get rid of the green screens"
- "If Microsoft says to do it, it must be right"
- If it is a salesman speaking, then it means implementing his or her product
- Notice how these all revolve around technology, ego and emotions, not people and processes



Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

One word, many definitions....

- Those previous examples also fail to consider whether a modernization strategy makes financial sense, so we have a better one...
- "Take stock of your resources. Use them better, use them smarter. Capitalize on your investment in them first, before investing in anything else"
- That's a little more like it
- But why do we modernize, anyway?



Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

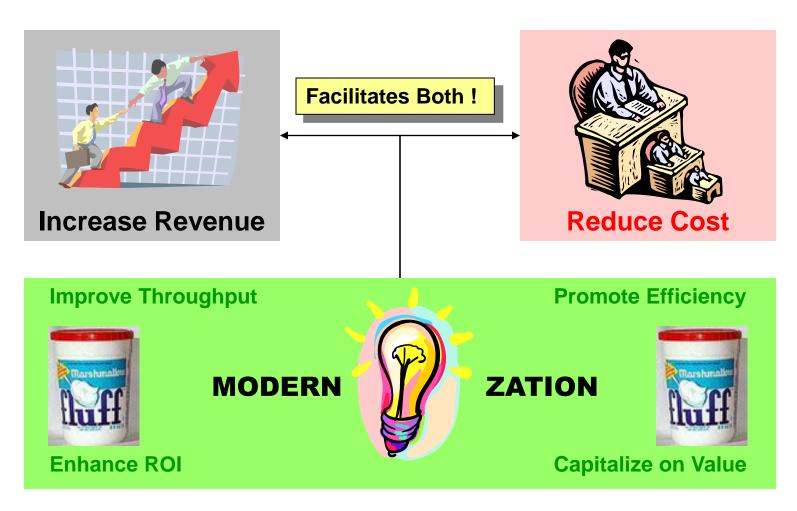
BLOB

WHATEVER

BIG BANG

MORE...

We modernize to improve the bottom line



The green by itself will not buy you a piece of machinery

The absence of green will be your largest impediment to achieving the black or the red



Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

Take stock of what you have......

Customers (your single most important asset)

Want to keep and want to keep happy

People (who know our business)

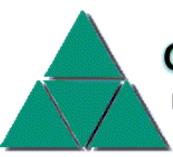
 Want to keep and want to keep interested, want them to innovate, etc.

Processes (how we do things)

Want to keep efficient and in compliance

Investments (technology, intellectual property, etc.)

Want to get more value and ROI from them



Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

We also have 3 "main courses"...









Information Systems Specialists



The Modernization Meal

a.k.a. "Burgers, Subs & Pumpkin Pie"





Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

The Burgers...

Feature:	Analogous to:
Fat, juicy heart attacks on a bun	Those 25,000 line abominations with 50 files and 500 GOTO's
Served your way, every day	Kowtowing to every user whim
Rare, medium or well done?	Some things tested thoroughly, others not so thoroughly
Served with super sized fries and a drink	That bulky 3 rd party product you use 10% of at best, and customize mercilessly
A moment on the lips, a lifetime on the hips	One-shot fix programs turned mission critical apps



Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

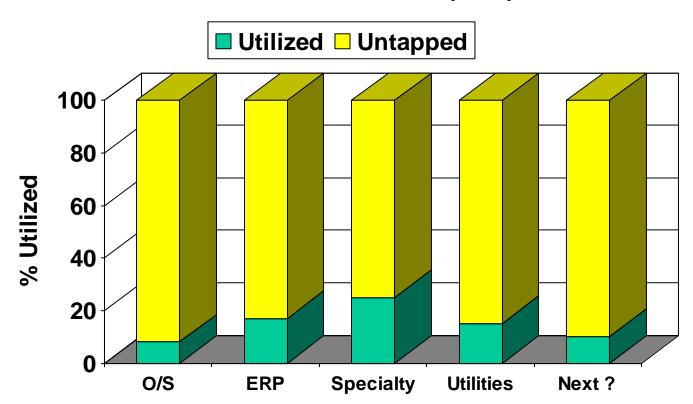
BIG BANG

MORE...

Fat content.....



Software Utilization (ROI)





Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

Cost of Untapped......



- Original price of software
- Cost of training & implementation
- Seat licenses
- Annual maintenance
- Support contracts
- Others
- Analogous to buying a 5,000 sq ft house and living in one small room
- This is ROI?



Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

Burger Lovers' Modernization.....



- View "promised land" as a destination
- Design a specification based on what you know right now and need right now
- Take inventory of existing applications
- Take inventory of existing resources
- Calculate project duration (blob of time)
- Calculate a budget (blob of money)
- Execute and hopefully come in on time, on budget and to spec



Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

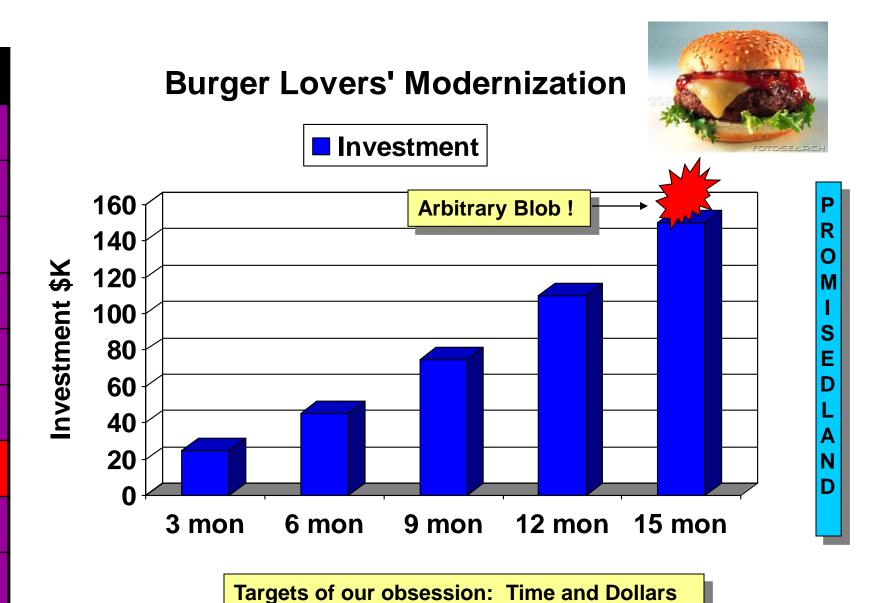
FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...





Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

Burger Lovers'
Modernization.....



Notable quotables:

- "It's MIS's problem!"
- "Just make it look like the old system!"
- "What was wrong with the old system?"
- "Not my budget!"
- "You're the geeks you test!"
- "Yeah, whatever!"



Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

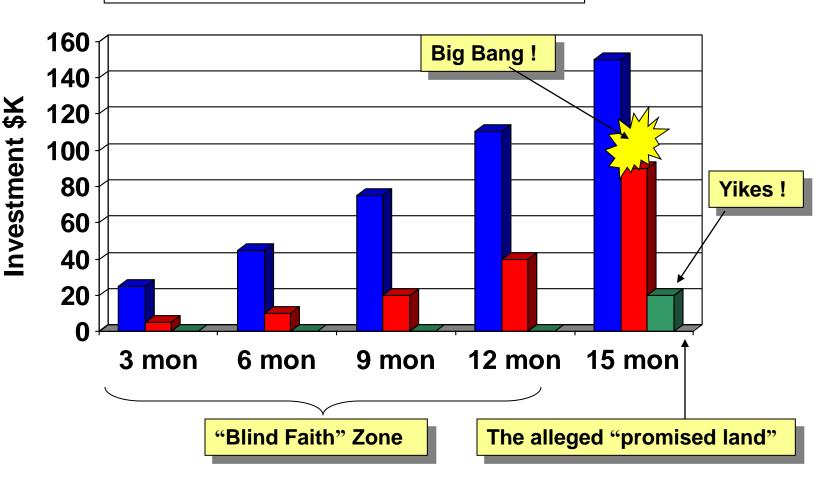
BIG BANG

MORE...



■ Investment ■ Disruption ■ Return







Information Systems Specialists



RUNDOWN

Y ASK Y

WEBSTER'S

MACHINERY

INVENTORY

WHOPPER

FAT GRAMS

BLOB

WHATEVER

BIG BANG

MORE...

What about all that disruption.....



- Normal day to day improvements put on hold until after project completion
- Specifications get old as the project progresses climate changes but the spec stays the same
- Users get impatient waiting for improvements and lose enthusiasm
- Management gets impatient waiting for ROI, second guesses investment
- Self appointed CEO's try to derail the project and cost productivity
- And oh, by the way...



Breaking News

Ferengi Raid U.S. Stocks

Mutual Funds also hard hit - 16th Rule of Acquisition blamed







"A deal is a deal, until a better one comes along".



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

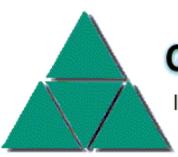
COOL WHIP

MORE...

More realistic events......



- Loss of key personnel
- Organizational shakeup
- Merger/Acquisition (may be good news)
- Significant financial downturn
- Natural disaster (ex. Katrina)
- Civil disaster (ex. 9/11)
- Change of heart on strategic vision



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

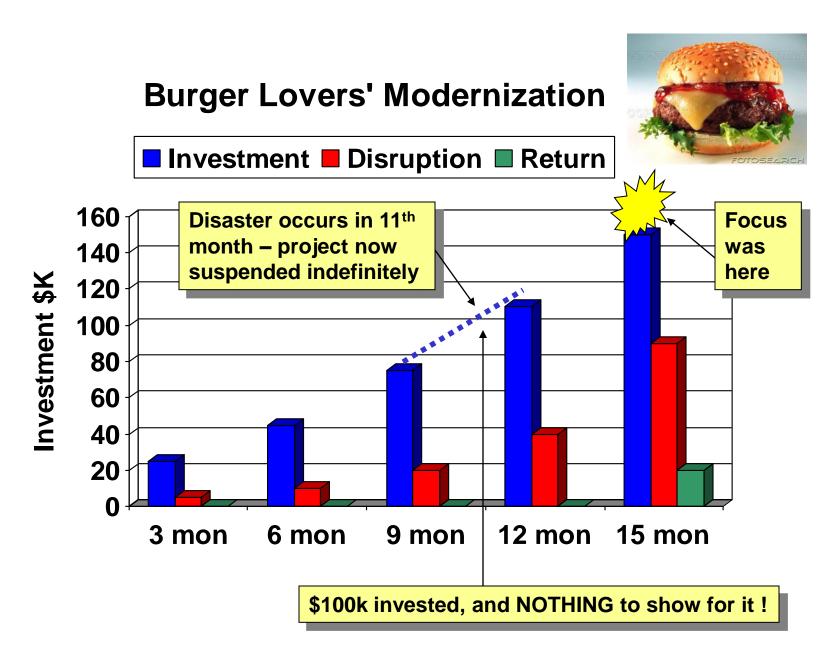
KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...





Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

All this dead money....



- Can't be liquidated
- Can't be used to help alleviated the effects of the disaster
- Has earned us NOTHING in return!
- Some might even have to be re-spent IF and when the project restarts

MORE...



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

Even if the project IS completed......



There will undoubtedly be disruption:

- "That doesn't look like our old system"
- "That might be what I asked for, but it's not what I wanted"
- "Where's my version of the program?"
- "Let's go back to the old system!"
- Users spend more time complaining about the new system than learning it
- "I don't care if I approved it it doesn't work!"
- And it's all MIS's problem FTFT!
- And that's not all...



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

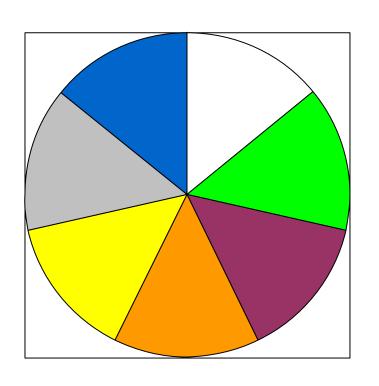
COOL WHIP

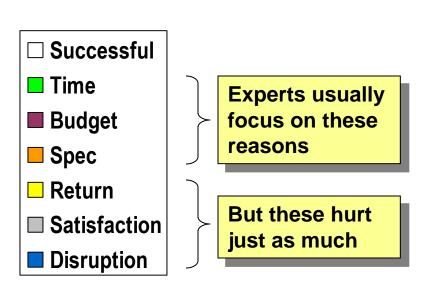
MORE...

...It could fail!

Why Modernization Projects Fail







A more effective approach would minimize these risks



Information Systems Specialists



The Modernization Meal

a.k.a. "Burgers, Subs & Pumpkin Pie"





Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

The Subs...



Feature:	Analogous to:
Lean, healthy and low in fat	Business logic developed once into easily reusable objects
Served on fresh baked rolls	Latest available technology used to best advantage
Goes down smooth, easy to digest	Steady, staged modernization with little or no disruption
Made from the same ingredients at each location	Using software the way it was designed
Served with baked chips and diet soft drink	Efficient but effective components interfacing well



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

Sub Lovers' Modernization......



- View "promised land" as a journey, not a destination
- Identity a FEW key benefits based on what you know right now and need right now. Make a business case to justify the benefits.
- Strengthen our data to support these benefits
- Design a solution to allow new versions of a small number of "stronger" database components to co-exist with legacy versions
- Provide mechanisms to synchronize new database objects with legacy objects real time
- Users continue to utilize legacy interfaces without disruption
- Modernize JUST the executables needed to provide the specified benefit
- Test and implement this small subset
- THEN...



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

Sub Lovers' Modernization.....



- Step back and review
- Identify what worked well and what didn't
- Use lessons learned, tools created and business rules defined in the previous stage, to help define the specification for the next stage
- Also consider any short term climate changes
- Meanwhile, other projects in process can utilize the new objects, since the data is synchronous
- Investment is focused not on arbitrary targets, but rather assuring that disruption is minimized and that ROI is realized early and often



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

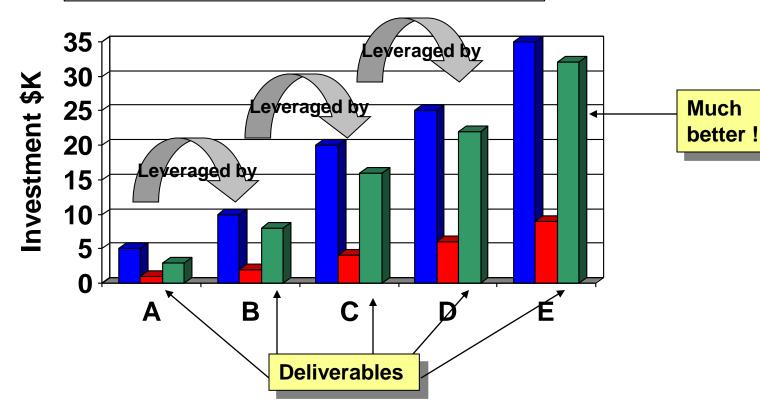
COOL WHIP

MORE...

Sub Lovers' Modernization







No "promised land", just steps on the journey.



Kaizen- What Does It Mean?

Kaizen- What Does It Mean?



Home

Resources

Lean Training

Site Guide

Consulting

About Strategos

Book Reviews

Useful Links

Search Site

Printer- friendly version of this page in PDF. Download

Origins and Definition of Kaizen

In the U.S. kaizen is often synonymous with "Kaizen Blitz" or "Kaizen Event." Such events rapidly implement workcells, improve setups or streamline processes. However, a better Japanese word for this activity is kaikaku

In Japanese, the definition of Kaizen is "improvement" and particularly, "Continuous Improvement" -- slow, incremental but constant. Norman Bodek explains this and translates it as "Quick & Easy Kaizen".

Taiichi Ohno and Shigeo Shingo developed both kaizen versions at Toyota. They are important tools for Lean Manufacturing, the Toyota Production System (TPS), Just In Time (JIT) and other effective manufacturing strategies.

Large-Scale Vs. Small-Scale Improvement

Large scale improvement is attractive. It promises quantum jumps in productivity, quality and effectiveness. However, it is difficult to implement because it affects many areas, people and processes. The design must be near-perfect because failure courts disaster. The risks and difficulties work against large-scale improvements.

Small-scale improvements are easier and faster. The risks are low because they generally have limited effect. However, the accumulated effect is often greater than a single large improvement. The Kaizen Blitz is a localized, smaller scale improvement and Mini-Kaizen are very small-scale improvements.

The Kaizen Blitz

The Blitz or Event is a focused, intense, short-term project to improve a process. Substantial resources- Engineering, Maintenance, Cell Operators, and others are available for immediate deployment.

An event usually includes training followed by analysis, design, and re-arrangement of a product line or area. A consultant often orchestrates. The Event normally takes 2-10 days. The results are immediate, dramatic and satisfying.

Mini-Kaizen

Before the recent popularity of the Blitz, kaizen meant "Continuous" Improvement." This is the slow accumulation of many small developments in processes and quality that, over 50 years, has helped make Toyota the lowest cost and highest quality automobile company in the world. Let's call these improvements "Mini Kaizen."

Mini Kaizen is part of corporate culture. It requires both conscious and sub-conscious thinking about improvements day by day and minute by minute on the part of all employees. It also requires that these same employees possess the skills for this type of thinking.

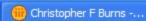
The mini variation is far more difficult to keep up and takes much longer for results than a blitz. But, as Toyota has demonstrated, it offers a more sustained competitive advantage.

Stratogoe' Kaizan Evente

More on Kaizen

₱ 100% ▼











Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

Making our data STRONG!!!......



What do we mean by that?

- Your data is your most valuable IT asset – the concrete footer on which apps are built
- Does your data cramp your style?
- Does it play nicely with apps on other systems?
- Does it enforce your business rules?
- Is it self cleaning?
- Is it self healing?



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

Making our data STRONG!!!......



Remember - A high powered application written over weak data is a weak application

- Use data types that do some of the work for you (date, time, timestamp, varchar, etc.)
- Use constraints to enforce your business rules no matter how the data gets there
- Use triggers to keep your workflow consistent no matter how the data gets there
- Use SQL functions and procedures to share your business rules with other applications
- Use identity columns instead of complex keys
- Use a vertical instead of a horizontal data model
- Avoid duplicating data, even if a convenience
- Hint Stop using DDS to build files !!!



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

Simple real life example: Master Files.....



- Insurance agent with LEGACY custom apps (most of which operated in S/36 environment)
- Many data files were not externally defined
- Three different types of customers industrial, service and governmental. Each had its own Customer Master with its own specialized "fields".
- Seeking the benefit of an audit trail against these files, and a way to simplify user queries
- Willing to consolidate the files to facilitate modernization.
- Consider...



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

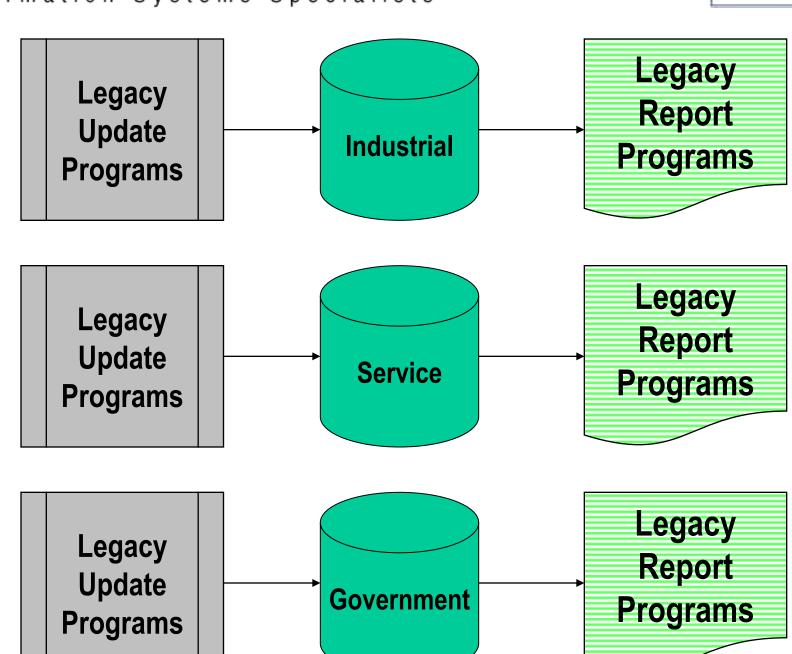
KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...





Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

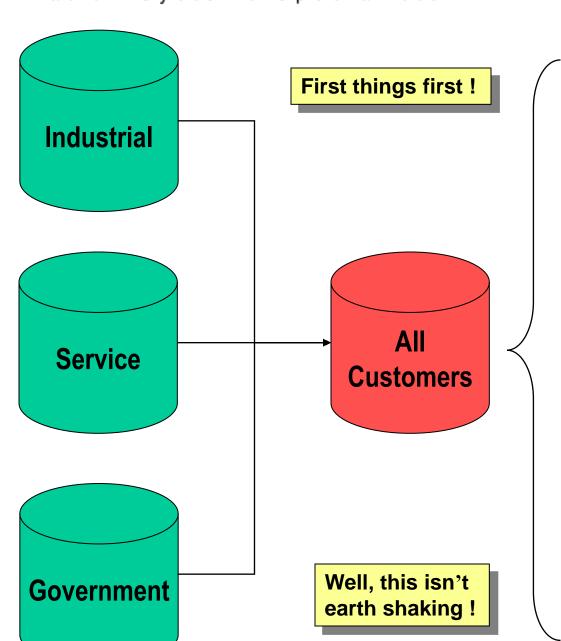
KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...



ID Fields

Customer type

Common data

Industrial Specific

Service Specific

Government Specific



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

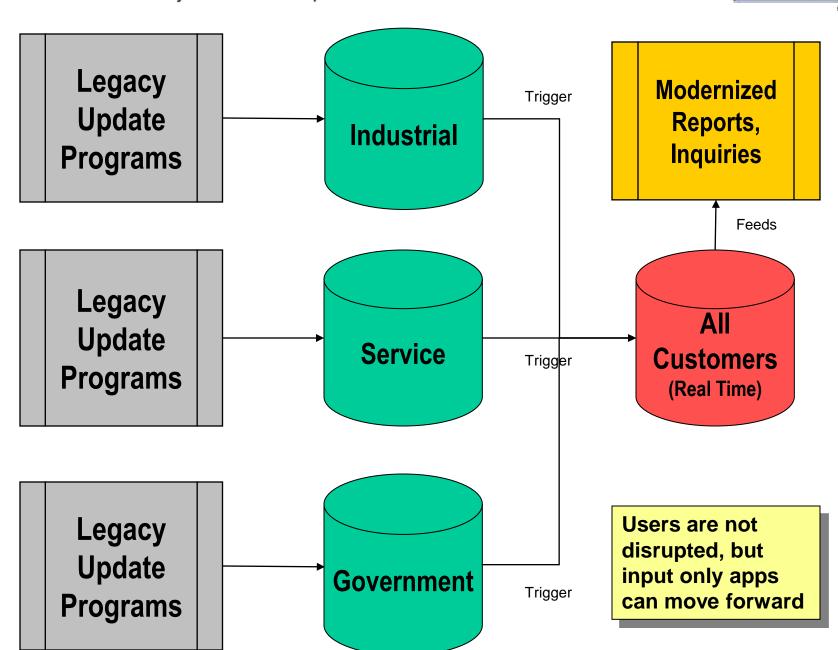
KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...



GEMKO Information Group, Inc. Information Systems Specialists





ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

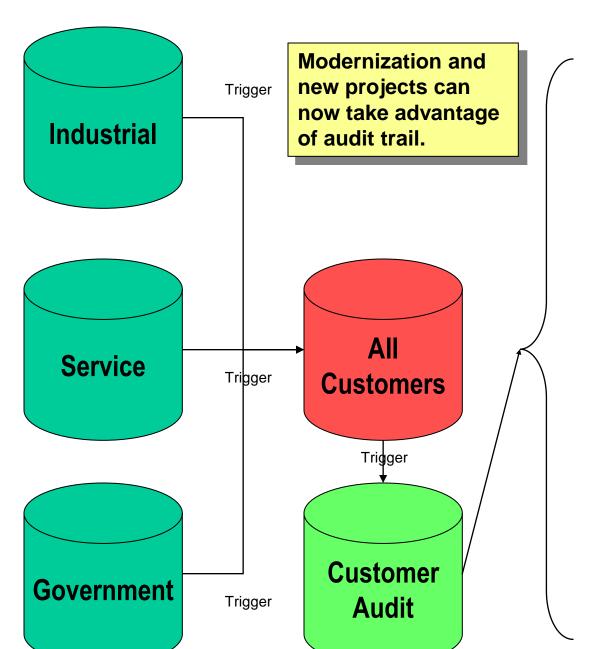
KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...



ID Fields

Customer type

User ID, Workstation

Time Stamp

Record Images

Comment or Reason (opt.)



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

What about the legacy update programs....



- We left these for last
- They are a small subset, but represent the most likely source of user disruption
- Lessons learned and reusable logic created by the previous steps help shape the refit strategy
- Any issues arising from this milestone are limited to the small subset no "big bang"



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

Why this approach.....



- Allows for gradual and/or staged refit of dependent programs (inquiries, reports, etc.)
- Overall less disruptive than a "root canal"
- Eliminates need for time consuming wholesale database conversion (done real time instead)
- Allows new development to conform to new database structure
- Allows users to take advantage of new audit trail
- Allows in-house developers to leverage new skills under less duress
- Other less obvious benefits



Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

Simple real life example: Claims Files.....



- Same insurance agent
- Multiple legacy claims files with a similar structured lifecycle
- Touched by many users
- Hence, are subject to delays in processing
- Consider...

GEI

GEMKO Information Group, Inc.

Information Systems Specialists





ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

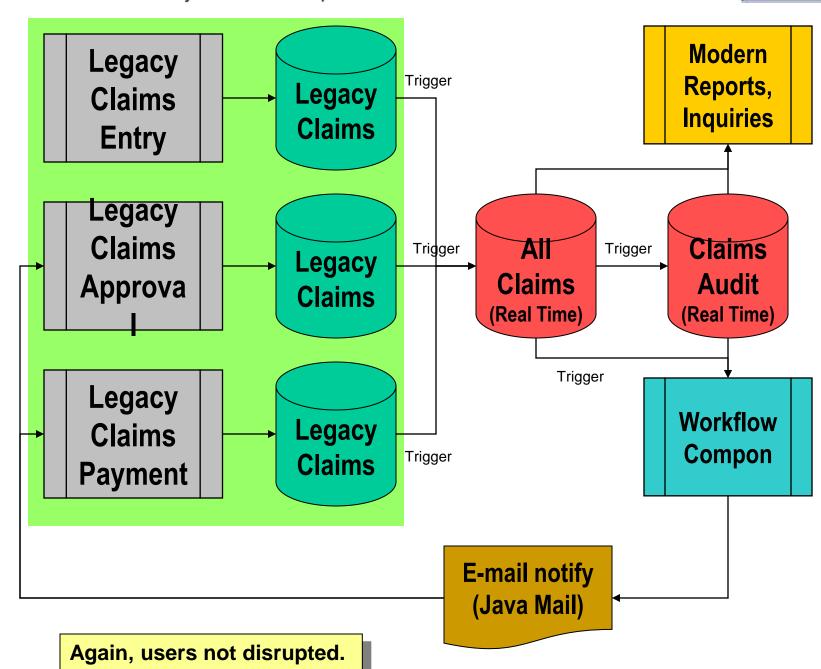
KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...





Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

Now wait just a darn minute !...



- You're saying that we should waste perfectly good money to maintain 2 systems at the same time, without a deadline or a budget?
- No, we should invest perfectly good money to assure smooth, steady improvement, minimize risk and disruption, and protect our investment altogether. We should focus on value and business case, not arbitrary targets.
- And oh, by the way...

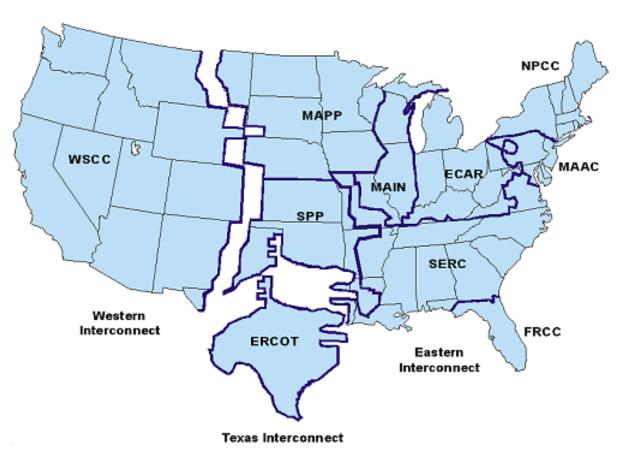


Breaking News

Romulans Cripple U.S. Power Grids

President says, "Told you to use nuc-u-ler power"













RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

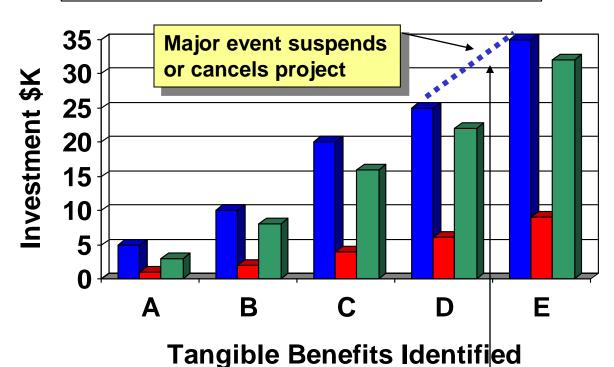
NUCLEAR

COOL WHIP

MORE...

Sub Lovers' Modernization





Not to worry! Most of our investment to date has yielded useable benefits to help our bottom line!



Information Systems Specialists



The Modernization Meal

a.k.a. "Burgers, Subs & Pumpkin Pie"





Information Systems Specialists



RUNDOWN

ACQUISITION

SGT. SCHULTZ

FTFT

CLUB

STEVE PERRY

KUNG FU

ONIONS

NUCLEAR

COOL WHIP

MORE...

The Pumpkin Pie...



FUIUSEARCHLeom

Feature:	Analogous to:
The aroma while baking	Enjoying the benefits of modernization long before "completion"
The crust	Leadership which holds the entire process together
The filling	A delicate blend of technical and non technical ingredients
The whipped topping	The resulting improvement in customer service levels
Served in slices to be shared with others	Total team effort with many hands making light work



Information Systems Specialists



RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

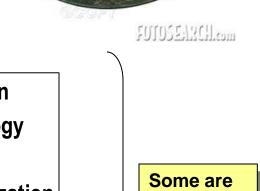
IT'S THE LAW

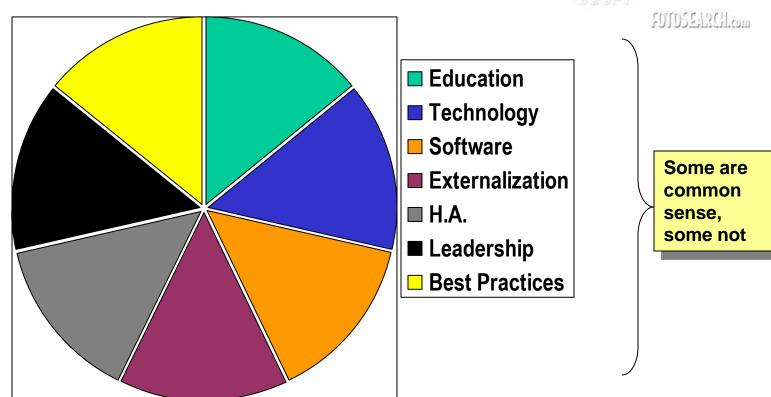
BOTTOM

The Pumpkin Pie!

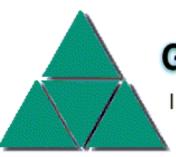
(a.k.a. the makings of a successful modernization)







Just like Mom used to make – secret ingredients made with love!



Information Systems Specialists



RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

IT'S THE LAW

BOTTOM

Education....



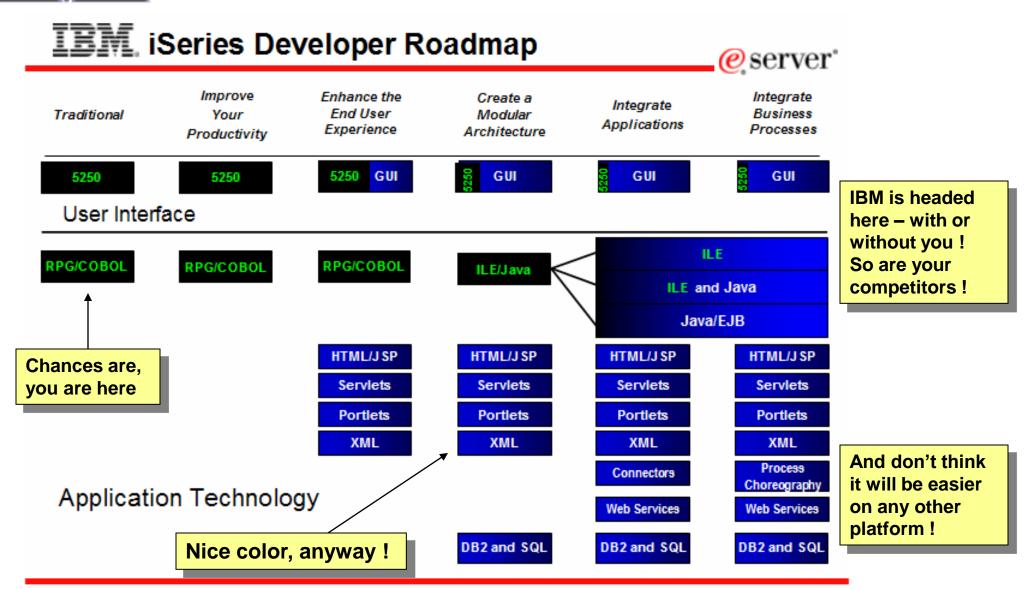
F0105E/13C/11com

- Perhaps the most important, yet the most neglected ingredient
- The best software, best practices and best tooling are meaningless without the proper education to bring it to life
- Insufficient education is a major contributor to underutilization ("dead money"), and greatly adds to the cost of development and support
- What's worse midrange developers have been left even further behind due to the stability of the platform
- Consider the IBM roadmap...

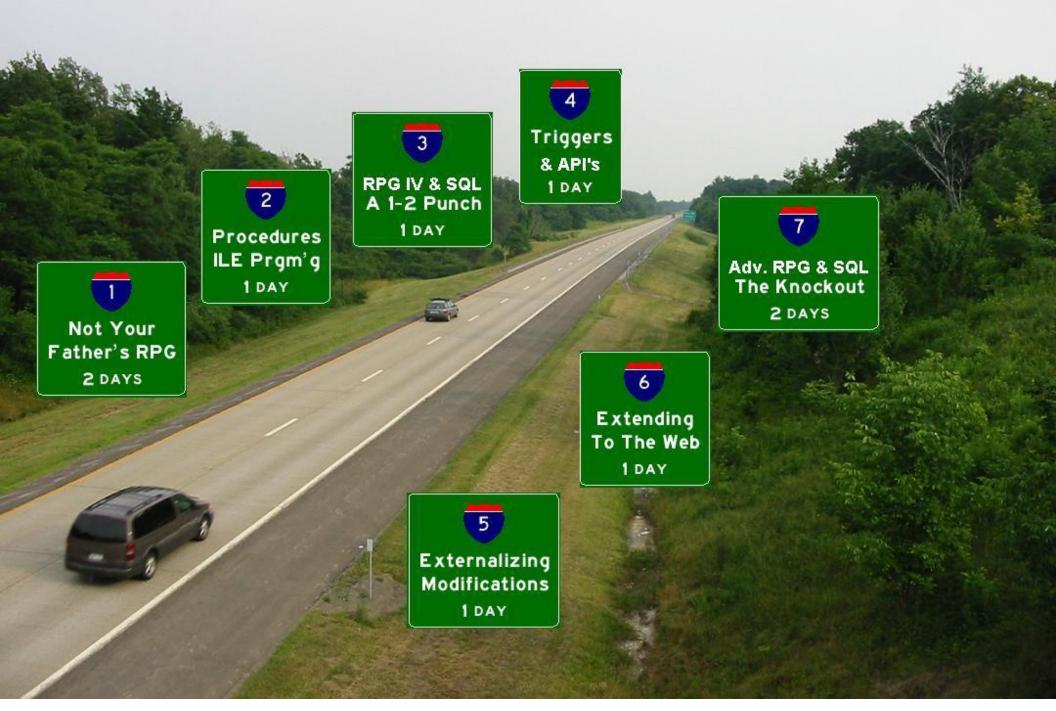


Information Systems Specialists





21st Century Midrange Developer Roadmap









RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

IT'S THE LAW

BOTTOM

Typical midrange developer's day

Firefighting/Troubleshooting (FFT): X%

- Fielding user distress calls, determine cause and scope, etc...
- Craft a repair strategy and hope it doesn't break something else.
- Common with patchwork systems or modified 3rd party code

Cloning/Re-inventing (CR): Y%

- Copying working code and modifying the copy for other use.
- Risk that business rules are not uniformly applied
- Adds to the cost of company policy changes

Fighting Limitations (FL): Z%

- Having to operate within the bounds of legacy technology
- Force fitting solutions into "comfort zone" techniques
- Overextended hardware

Satisfactory Productivity (SP): 100% - (X + Y + Z)

- Operating at expected efficiency based on the environment
- High percentage here doesn't necessarily mean high efficiency



Information Systems Specialists



· · · · · · · · · · · · · · · · · · ·
RUNDOWN
MOM
US 219
AARP
FINANCIER
BASTARD
TRUMP
1 & DONE
DESSERT
IT'S THE LAW
воттом

			Impa	act of	Education of	n Deve	loper T	hroughp	ut				
Pre	ogramı	mers		Throug	ghput								
ID	Task	%Day	Avg. S	S&B:	\$60,000								
Α	FFT	25%		FFT	\$15,000								
	CR	25%	Α	CR	\$15,000								
A	FL	25%	A	FL	\$15,000								
	SP	25%		SP	\$15,000								
	Tot	100%		Tot	\$60,000								
	FFT	10%		FFT	\$6,000								
В	CR	40%	В	CR	\$24,000								
D	FL	30%	D	FL	\$18,000								
	SP	20%		SP	\$12,000								
	Tot	100%		Tot	\$60,000								
									W	/hat	if v	ve cou	ld
	FFT	30%		FFT	\$18,000								
С	CR	30%	С	CR	\$18,000							by red	
C	FL	15%	C	FL	\$9,000				F	FT	CR	and FL	?
	SP	25%		SP	\$15,000					• •,	<u> </u>		· ·
	Tot	100%		Tot	\$60,000								
	FFT	40%		FFT	\$24,000								
					Ψ= .,σσσ								
D	CR	15%		CR	\$9,000								
D	FL	15% 30%	D										
D			D	CR	\$9,000								
D	FL	30%	D	CR FL	\$9,000 \$18,000	D	ownlo	ad this	ans	alve	ie:		
D	FL SP	30% 15%	D	CR FL SP	\$9,000 \$18,000 \$9,000			ad this		_			
D	FL SP	30% 15% 100%	D	CR FL SP	\$9,000 \$18,000 \$9,000					_		ommoi	ncode
	FL SP Tot	30% 15% 100%		CR FL SP Tot	\$9,000 \$18,000 \$9,000 \$60,000					_		ommoi	ncode
	FL SP Tot	30% 15% 100%	D	CR FL SP Tot	\$9,000 \$18,000 \$9,000 \$60,000					_		ommoi	ncode
D Γot	FL SP Tot	30% 15% 100% 1.05 1.10		CR FL SP Tot	\$9,000 \$18,000 \$9,000 \$60,000 \$63,000 \$66,000					_		ommoi	ncode
	FL SP Tot FFT CR FL	30% 15% 100% 1.05 1.10 1.00		CR FL SP Tot	\$9,000 \$18,000 \$9,000 \$60,000 \$63,000 \$66,000 \$60,000					_		ommoi	ncode
	FL SP Tot FFT CR FL SP	30% 15% 100% 1.05 1.10 1.00 0.85		CR FL SP Tot FFT CR FL SP	\$9,000 \$18,000 \$9,000 \$60,000 \$63,000 \$66,000 \$60,000 \$51,000					_		ommoi	ncode
	FL SP Tot FFT CR FL SP	30% 15% 100% 1.05 1.10 1.00 0.85		CR FL SP Tot FFT CR FL SP	\$9,000 \$18,000 \$9,000 \$60,000 \$63,000 \$66,000 \$60,000 \$51,000					_		ommoi	ncode
	FL SP Tot FFT CR FL SP	30% 15% 100% 1.05 1.10 1.00 0.85		CR FL SP Tot FFT CR FL SP	\$9,000 \$18,000 \$9,000 \$60,000 \$63,000 \$66,000 \$60,000 \$51,000					_		ommoi	ncode



Information Systems Specialists



RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

IT'S THE LAW

BOTTOM

How a "21st Century" education can help reduce the negatives

Fighting Limitations (FL):

- Students get experience with many different technologies
- Can use whichever toolkit best solves the task at hand
- Easily mix technologies within applications

Cloning/Re-inventing (CR):

- Philosophy of defining key business rules once and only once
- Policy changes easily implemented, uniform rules enforcement
- Spend more time inventing, less time re-inventing

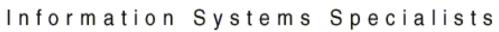
Firefighting/Troubleshooting (FFT):

- Ripple effect of improving FL and CR
- Higher quality applications contain fewer failure points
- Triage and correction simplified with better tooling and methods

Satisfactory Productivity (SP):

- Increases as others are reduced
- Now based on a higher standard, thus a double improvement







RUNDOWN
МОМ
US 219
AARP
FINANCIER
BASTARD
TRUMP
1 & DONE
DESSERT
IT'S THE LAW

BOTTOM

			Impa	act of	Education	on on	Dev	elope	er Thro	ughpu	<u> </u>		
			•							<u> </u>			
Pr	Programmers			Throughput			lm	pact c	of Educa	Res	Result Throughput		
ID	Task	%Day	Avg. S	Avg. S&B: \$60,000			ID		%Chg	Result	Avg. S	8&B:	\$60,000
Α	FFT	25%		FFT	\$15,000		A	FFT	-5%	20%		FFT	\$12,000
	CR	25%	A	CR	\$15,000			CR	-5%	20%	A	CR	\$12,000
_	FL	25%		FL	\$15,000			FL	-5%	20%	A	FL	\$12,000
	SP	25%		SP	\$15,000			SP	15%	40%		SP	\$24,000
	Tot	100%		Tot	\$60,000			Tot	0%	100%		Tot	\$60,000
	FFT	10%		FFT	\$6,000			FFT	-5%	5%		FFT	\$3,000
В	CR	40%	В	CR	\$24,000		В	CR	-5%	35%	В	CR	\$21,000
Ь	FL	30%	D	FL	\$18,000			FL	-5%	25%	В	FL	\$15,000
	SP	20%		SP	\$12,000			SP	15%	35%		SP	\$21,000
	Tot	100%		Tot	\$60,000			Tot	0%	100%		Tot	\$60,000
	FFT	30%		FFT	\$18,000			FFT	-5%	25%		FFT	\$15,000
С	CR	30%	С	CR	\$18,000		С	CR	-5%	25%	С	CR	\$15,000
C	FL	15%	C	FL	\$9,000			FL	-5%	10%	C	FL	\$6,000
	SP	25%		SP	\$15,000			SP	15%	40%		SP	\$24,000
	Tot	100%		Tot	\$60,000			Tot	0%	100%		Tot	\$60,000
	FFT	40%		FFT	\$24,000		D	FFT	-5%	35%		FFT	\$21,000
D	CR	15%	D	CR	\$9,000			CR	-5%	10%	D	CR	\$6,000
D	FL	30%	U	FL	\$18,000			FL	-5%	25%	D	FL	\$15,000
	SP	15%		SP	\$9,000			SP	15%	30%		SP	\$18,000
	Tot	100%		Tot	\$60,000			Tot	0%	100%		Tot	\$60,000
	FFT	1.05		FFT	\$63,000		Tot	FFT	-0.20	0.85		FFT	\$51,000
Tat	CR	1.10	Tot	CR	\$66,000	-		CR	-0.20	0.90	Tat	CR	\$54,000
Tot	FL	1.00	Tot	FL	\$60,000	Tot	FL	-0.20	0.80	Tot	FL	\$48,000	
	SP	0.85		SP	\$51,000		SP	0.60	1.45		SP	\$87,000	
	Tot	4.00		Tot	\$240,000			Tot	0.00	4.00		Tot	\$240,000
											Net C	hg	\$36,000



Information Systems Specialists



RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

IT'S THE LAW

BOTTOM

Technology.....



- i5 is an ideal platform for modernization
- Integrated, secure, scalable, reliable
- But eventually, even the best midrange systems get old
- The older the system, the more difficult it will be to modernize
- Hint don't try to modernize on a model 620 to 256 meg of memory!
- As a lessee of IBM i5 hardware, you can ensure regular, predictable upgrades to state of the art hardware



Information Systems Specialists



RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

IT'S THE LAW

BOTTOM

Software....



- i5/OS Comes with ALL the development tools you may EVER need, and financed by YOU!
- Also comes with DB2, security, virtualization, communications, web serving and file/print sharing built right in, and financed by YOU!
- As a licensee of 3rd party application software, you are normally entitled to new versions as they are released. This software is based on years of research and business case studies, and financed by YOU!
- So any company that lags behind in their software releases is squandering its investment!



Information Systems Specialists



RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

IT'S THE LAW

BOTTOM

Externalization.....



FUIUSEARCH.com

- Breaking the endless, destructive cycle of "bastardizing" 3rd party software
- Provide ample, equivalent custom function, based on business case, external to the software
- Facilitates a return to a quality tested, certified software products
- Re-qualify for 3rd party support
- Significantly reduces the cost and effort of implementing every subsequent release
- A separate workshop and discussion topic "Get Those Mods Outta Here"



Information Systems Specialists



RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

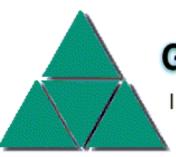
IT'S THE LAW

H.A....



- H.A. stands for Hard @ss
- Somebody in the organization needs to be the H.A.
- Preferable someone with a top floor corner office (ex. "The Donald")
- Enforce commitment and compliance
- Say NO to frivolous customizations
- Stay focused on the business case
- Key player in externalization projects
- Without the H.A., the burger lovers will undoubtedly take over

BOTTOM



Information Systems Specialists



RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

IT'S THE LAW

BOTTOM

Best Practices....



- Writing business logic once
- Not force fitting technology simply because it is in the comfort zone
- Taking advantage of available resources (web casts, published case studies, etc.)
- Regular cleanup & archival (data, programs, documents, etc.)



Information Systems Specialists



RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

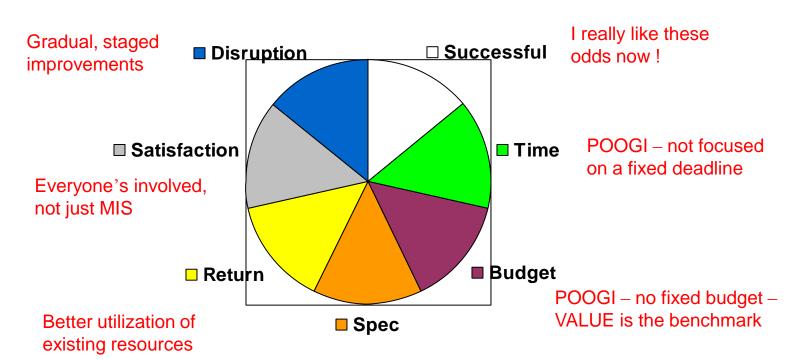
IT'S THE LAW

BOTTOM

Failure is not an option.....



Why Modernization Projects Fail



Continuously improved based on experience and climate







RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

IT'S THE LAW

BOTTOM

Summary.....

- Modernization is a JOURNEY, not a destination
- Not a technology solution, it's a business solution
- Taking better advantage of the resources you have
- Making a business case for small, staged improvements
- Should be a positive experience for everyone, not a root canal
- REMINDER Do lunch tomorrow?



Information Systems Specialists



RUNDOWN

MOM

US 219

AARP

FINANCIER

BASTARD

TRUMP

1 & DONE

DESSERT

IT'S THE LAW

BOTTOM

Questions?















Information Systems Specialists



Thank you for attending!

"Now, Eat Fresh!"

Christopher F. Burns, Sr. GEMKO Information Group cburns@gemko.com













This publication is copyrighted with all rights reserved. Under the copyright laws, this publication may not be copied in whole or in part, without the written consent of GEMKO Information Group, Inc. Under the law, copy includes translating into another language or format.

© Copyright, GEMKO Information Group, 2007. All rights reserved.

NOTICE

The information contained in this publication is subject to change without notice. Although efforts have been made to ensure the accuracy of the document, GEMKO Information Group, Inc. assumes no liability for damages incurred directly or indirectly from errors, omissions or discrepancies between the software and the publication.