PRODUCT MANAGEMENT - PRODUCTION PLANNING APPLYING PROJECT MANAGEMENT/SYSTEMS ENGINEERING TOOLS AND METHODOLOGY.

PROJECT DEFINITION

PMI (PROJECT MANAGEMENT INSTITUTE):

Project it's a temporary endeavor undertaken to create a unique product, service or result.

IPMA (INTERNATIONAL PROJECT MANAGEMENT ASSOCIATION):

A project is a unique, temporary, multi-disciplinary and organized endeavor to realize agreed deliverables within predefined requirements and constraints.

Merriam-Webster dictionary:

A specific plan or design. ("projected; projecting;": to plan, figure, or estimate for the future.)

SYSTEMS - MY FIRST APPROACH + 40 YEARS AFTER

- I984 HYDRAULIC ENGINEERING
- CATANIA + STANFORD = WATER SYSTEMS
- SAN JOAQUIN VALLEY, CALIFORNIA + IRRIGATION = SALINITY
- Sustainability of irrigated agriculture in the SAN JOAQUIN VALLEY, California Hydrologic Sciences, Department of Land, Air, and Water Resources, University of California, Davis, May 2006:

"Approximately 113 thousand acres on the west side of the San Joaquin Valley have been retired (permanently removed from irrigation) due to regional drainage problems (high salinity, shallow groundwater). More land retirement is anticipated."

The Economic Impacts of CENTRAL VALLEY Salinity University of California Davis, Final Report to the State Water Resources Control Board Contract 05-417-150-0, March 20, 2009:

"If salinity increases at the current rate until 2030, the direct annual costs will range from \$1 billion to \$1.5 billion, with income impacts to the Central Valley between \$1.2 billion and \$2.2 billion."

PRODUCT/PROJECT LIFECYCLE SYSTEMS & PORTFOLIOS









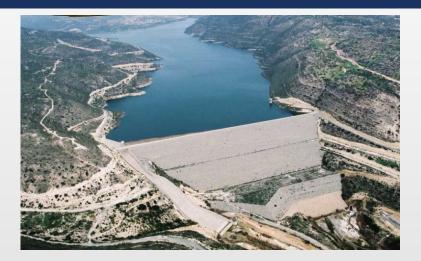
HOOVER DAM

CONSTRUCTION 1931 – TODAY's COST \$860 million (Bechtel) MAINTENANCE / DISMANTLING COSTS TODAY AT 40% RESERVOIR CAPACITY (DUE TO CLIMATE CHANGE?)

> IN USA 69 DAMS REMOVED IN 2020 A TOTAL OF 1,797 DAMS HAVE BEEN REMOVED SINCE 1912.

CONSTRUCTION PROJECTS MANAGEMENT





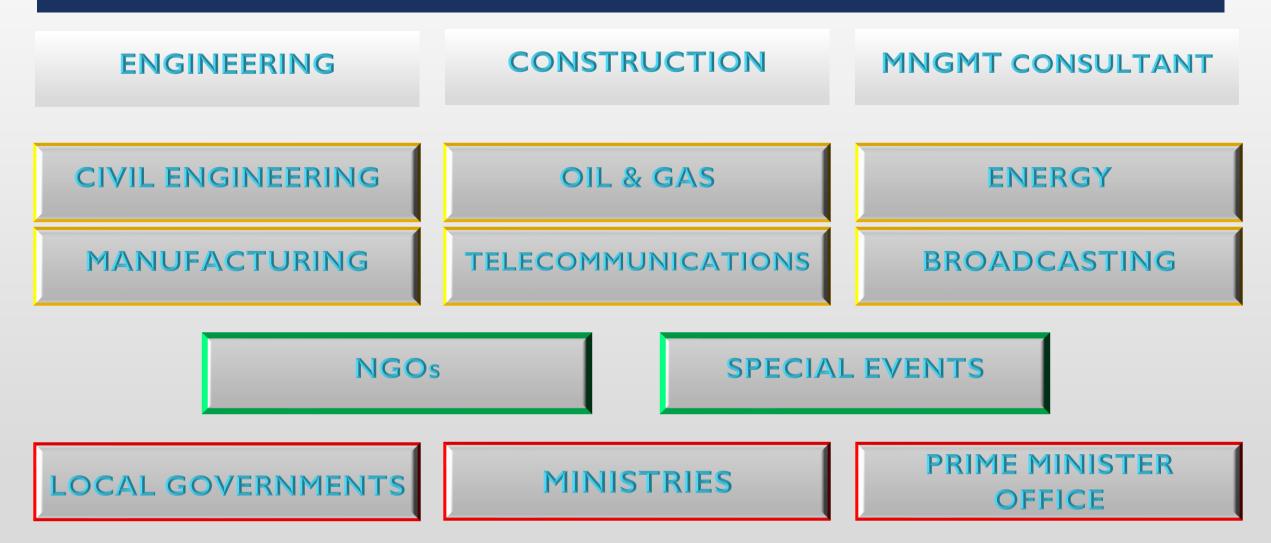




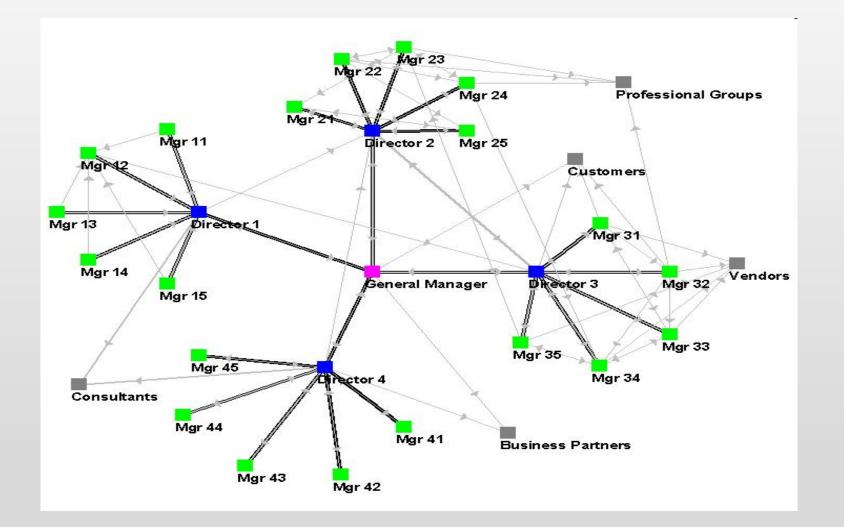




SPHERICAL EXPERIENCE



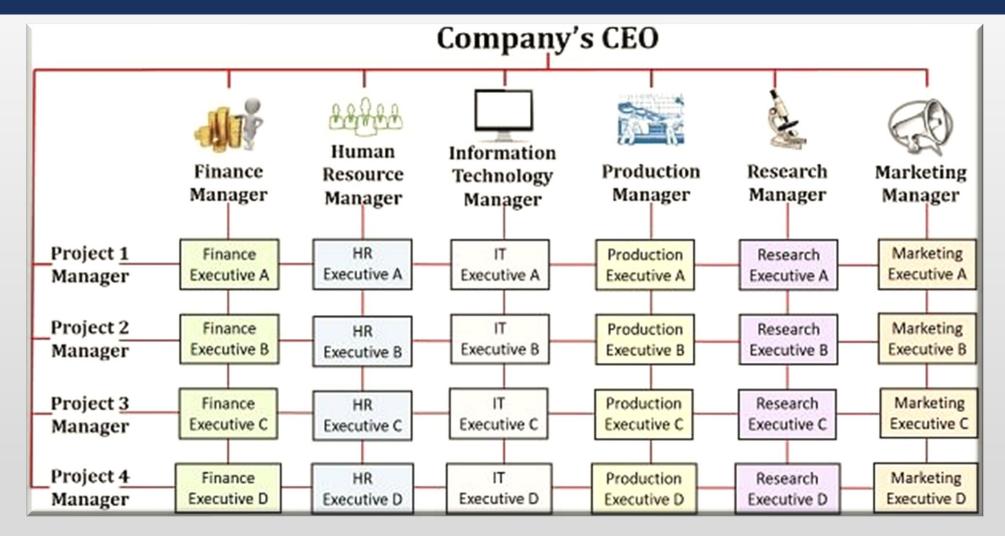
ORGANIZATIONAL STRUCTURE COMPLEXITY



PORTFOLIOS / SYSTEMS > COMPLEXITY!



PROJECTIZED/MATRIX ORGANIZATIONS



TOP DOWN APPROACH



PMIS SOFTWARE

ABILITY TO COLLECT & ELABORATE DATA ACCORDING TO **ORGANIZATION'S** SPECIFIC NEEDS

WE ANSWER POSITIVELY TO THE QUESTIONS:

- Can we utilize PMIS and Project Management methodologies for Internal Processes, Production Management, Demand Planning, Marketing, ...?

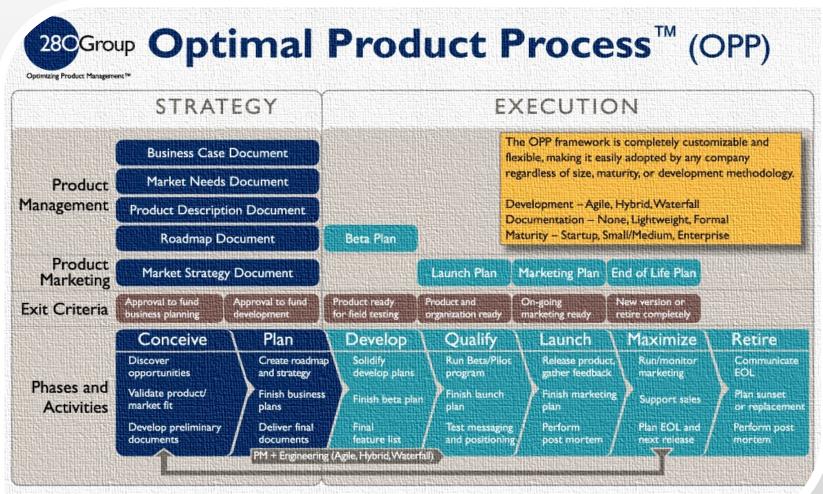
- And what about the ANNUAL BUDGET and the STRATEGIC PLAN?

FROM STATIC TO DYNAMIC!

	1998-99 1999-2000			Change in 1999-2000 actual		
		Budget		From 1998-99	From M	ayl 999
	Actual estimat		Actual	actual	Budget e	stimate
Income Tax	\$m	\$m	\$m	\$m	\$m	%
Individuals						
Gross pay-as-you-earn (a)	71 158	76 350	76 506	5 349	156	0.2
Collections on assessments (b)	12 539	12 750	13 370	831	620	4.9
Prescribed payments system (c)	2 790	2810	3 121	330	311	11.0
Total refunds	10 311	11 930	10 946	634	-984	-8.2
Total individuals (d)	76 176	79 980	82 050	5 875	2 070	2.6
Companies	20 733	21 950	24 346	3 612	2 396	10.9
Superannuation funds (e)	3 916	3 940	3 820	-97	-120	-3.1
Withholding tax						
Non-resident						
Dividend	152	239	312	160	73	30.6
Interest	546	570	552	6	-18	-3.1
Royalties	380	370	351	-30	-19	-5.2
Resident	140	130	212	71	82	62.7
Mining	1	1	1	0	0	46.4
Total withholding tax	1 220	1 3 1 0	I 428	208	118	9.0
Resource rent tax	419	720	1 184	765	464	64.4
Fringe benefits tax (f)	3 289	3 280	3 373	84	93	2.8
Total Income Tax	105 752	111 180	116 200	10 448	5 0 2 0	4.5
Sales Tax (g) (h)	15 155	15 450	15 523	368	73	0.5
Excise (i)	13 608	14 300	14 108	500	-192	-1.3
Diesel fuel rebate scheme (j)	-	1 620	5 4	-	-106	-6.5
Miscellaneous	11	0	0	-11	0	0.0
Total	134 527	139 310	144 318		5 008	3.6

Activity	Activity Description		ur Float	Early Start	Early Finish	
	Temporary 12" Water Main into L&Y	4			3APR06	
	Remove 12" Water Main in New Retail Area	3			7APR06	
510210	New 8" Water Main Along the East Side of CCD	10	10 350 1	SAPROS 0	HMAY08	
Retail (Sum	mary Activities)					
Existing Ma	II - Basement					
-						
	Install Basement Pump Stations				IMAYOS	
E1000	Install Water Line in Basement				SMAYOS	
	Install Sanitary Line in Basement				BOYANR	
	Install Storp Line in Basement				SMAYOS	
	Install Force Mains Cut Over Water Lines				BOY AMD	
	Cut Over Sprinkler Mains				DATA YOR	
	Cut Over Sprinker Mans				DASA TUS	
		[-1u]	10 240/0	0004100 13	UNATU0	
Retail Area Main Area	1					
1810301	Test Piles - Main Area	27	27 -17 2	7DEC05 0	3/2506	
	Piles - Main Area				TAPR06	
1810000	Expendion - Main Area	7	7 37 2	SFEBOR 0	BAAARDS	
	Site Grounding Retail Area 1	80			0,0,0,0	
1510700	Catholic Protection Retail Area 1				OJUL08	
1810400	Pile Cap Concrete/Rebar		54 -28 1	7MAR06 0	1.JUN06	
1R11000	Structural Steel - Main Area	00	60 -24 1	OMAYD6 0	30/U/308	
	Sheet Piling - Main Area				SUUN00	
1R10200	Subgrade Backfill - Main Area		20 3 0	2JUN06 2	9JUR406	
	Cast In Place Concrete				1JUL08	
	Unit Concrete Floor Fills and Rebar - Main Area				60C106	
	Membrane Roofing - Main Area				1AUS06	
	HVAC Distribution - Understab Main - Main Area				1SEP06	
	Plursbing Distribution - Underslab - Main Area				1SEP08	
	Electrical Supply & Distrib - Understab - Main				1SEP06	
	Fire Protection System - Understab - Main Area				1SEP08	
	Internal CMU Walts - Main Area Skulights - Main Area				NOCT08 5DEC08	
	Skynghts - Main Area Esterior Entrances - Main Area				HDEC06	
	Euterior Precast Walls - Main Area				2DEC06	
	Backfit to Stab - Main Area				90CT05	
	Fireproofing - Main Area				SNOVO6	
	Concrete Slab on Grade - Main Area				SNOV08	
	Concrete Partition Walls - Main Area	7			60CT08	
	Penthouse Wall Louvers - Main Area				3NOV06	
	Colling Fire Doors - Main Area				INOVOS	
	BiParting Doors - Main Area				INOVO8	
	Internal Drywall Partitions & Paint - Main Area		67 29 0	80CT08 2	16DEC08	
	Exterior Curtain Walls - Main Area		60 23 0	eocros 0	OJANO7	
1812700	Exting & Sterways - Man Area	60			SJAN07	
1R12200	Elevators - Main Area	100 1	00 150 0	eocroe 2	SFEB07	
	Escelators - Main Area				BFEB07	
	HVAC Distribution - Rough-in - Main Area	100 1			3MAR07	
	Plumbing Distribution - Rough-in - Main Area	100 1			3MAR07	
1R13410	Electrical Supply & Distrib - Rough-in - Main	100 1			3MAR07	
	Fire Protection System - Rough-in - Main Area	100 1			3MAR07	
	Dock Equipment - Main Area				INOV08	
	Door Frames & Hardware - Main Area				SJAN07	
	Denvising Walls (Tenant to Finish) - Main Area Common Area Finishes - Main Area	40			6JAN07 MMAR07	
d Data	ar seiter A	1 2.01		and the la	Laytie	
of Calls	PERGA07				Progress flat	Data Based Oncore and
to Drate • Drate	INCIGOINT IN AN AND AND AND AND AND AND AND AND AND	_	_	_	Critical Adult	Abia 2012/02/02/02/02/02/02/02/02/02/02/02/02/02
						Center Expansion
						Preliminary Construction Schedule
	C Primavera Systems. Inc.					

AIPMM (ASSOCIATION OF INTERNATIONAL PRODUCT MANAGEMENT AND MARKETING) - PRODUCT MANAGEMENT AND MARKETING BODY OF KNOWLEDGE (ProdBOK® GUIDE)



Optimal Product Process Methodology © 280 Group, 2011-2014 Source: Conceive to Retire from AIPMM Product Management Body of Knowledge® (ProdBOK®)

PRODUCTION PLANNING

- HUMAN RESOURSES, EQUIPMENT, MATERIALS

- PRODUCTION BATCHES!



THANKYOU

PANAGIOTIS AGRAPIDIS

p.agrapidis@gmail.com

www.linkedin.com/in/agrapidis/