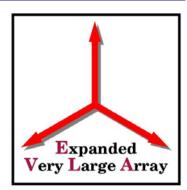
NRC - CNRC





EVLA Correlator Project Management Review Amy Fink



EVLA Correlator Project Management

- Original Schedule and Budget
- Interthink Consulting Proposals
- Work done in the Last Year
- Set-Backs/Slow-Downs in Last Year
- Project Management Status Now
- Project Management in the Future

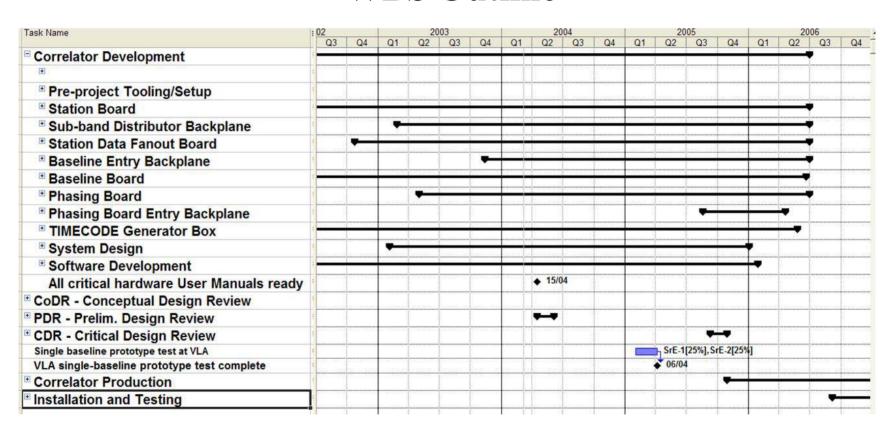


Original Schedule & Budget

- Project Schedule as of 28Dec2001 (developed by B. Carlson)
- Project Budget as of 18Jan2002 (developed by B. Carlson)



Project Schedule as of 28Dec2001 – WBS Outline



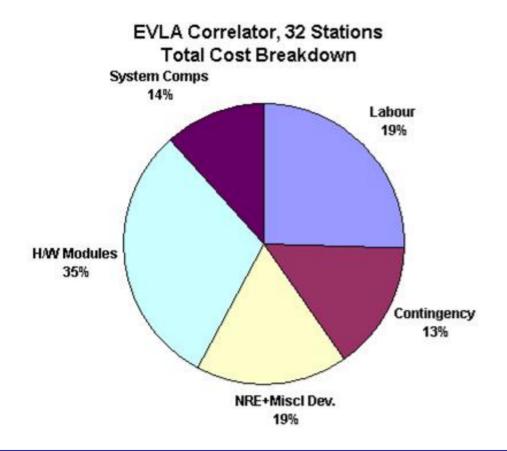


Project Schedule as of 28Dec2001 – Milestone Dates

- Critical Hardware Manuals: Apr2004
- PDR: May2004
- FIR Filter Prototype: Jan2005 Jun2005
- Correlator Chip Prototype: Jan2005 Jun2005
- VLA Single Baseline Prototype Test: Apr2005
- CDR: Oct2005
- FIR Filter Production: Oct2005 Feb2006
- Correlator Chip Production: Oct 2005 Feb2006
- System Integration & Test (Penticton): Jul2006 Feb2007
- System Installation & Test (VLA): Feb2007 Apr2008
- Commissioning: Apr2008



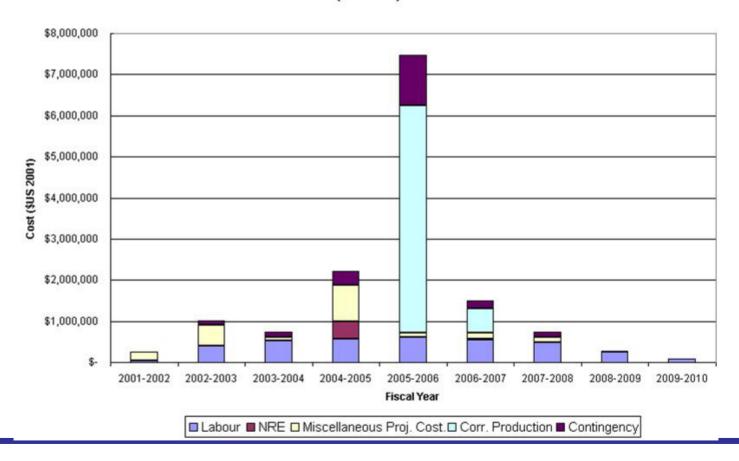
Project Budget as of 18Jan2002 – Cost Breakdown





Project Budget as of 18Jan2002 – By Fiscal Year (2001 USD)

EVLA Correlator Fiscal Year Budget (\$US 2001)



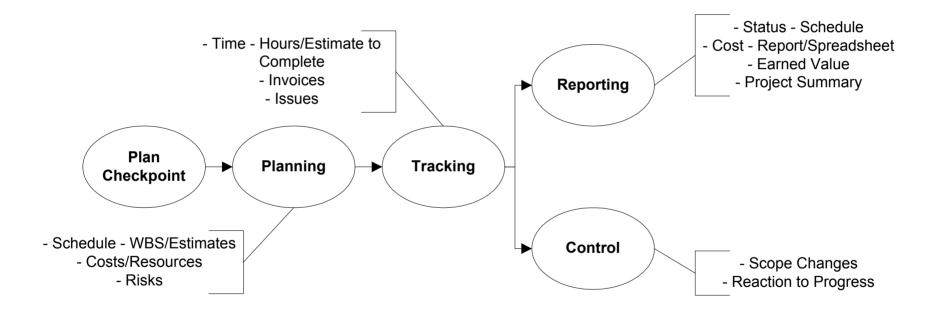


Interthink Consulting Proposals

- Restructure the WBS
- Time Based Schedule
- Revamp Resource & Time Estimates
- MS Access Budget Tracking Database

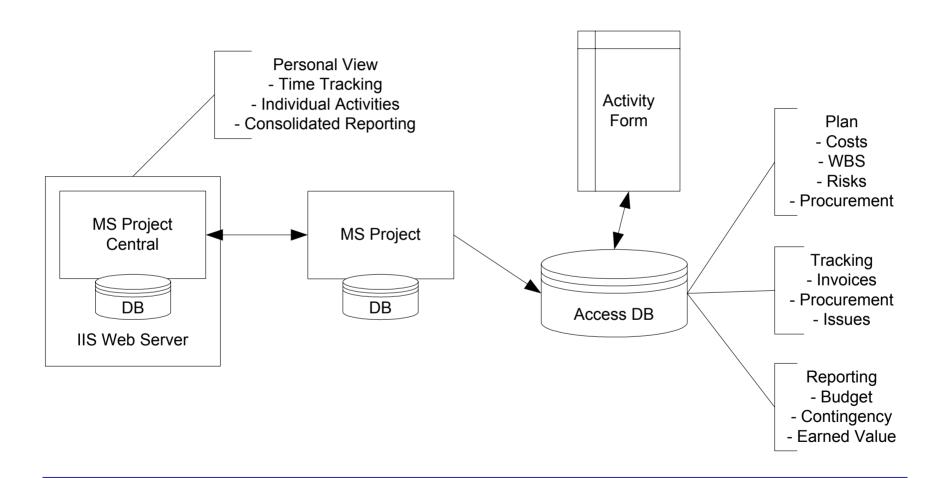


Interthink Consulting Proposals





Interthink Consulting Proposals





Work Done in the Last Year

- Project Management Meetings
- Created Activity Form
- WBS Dictionary Created
- MS Access Database Created
- DRAO-EVLA Web Site Remodeled
- Project Reporting Scheme Developing

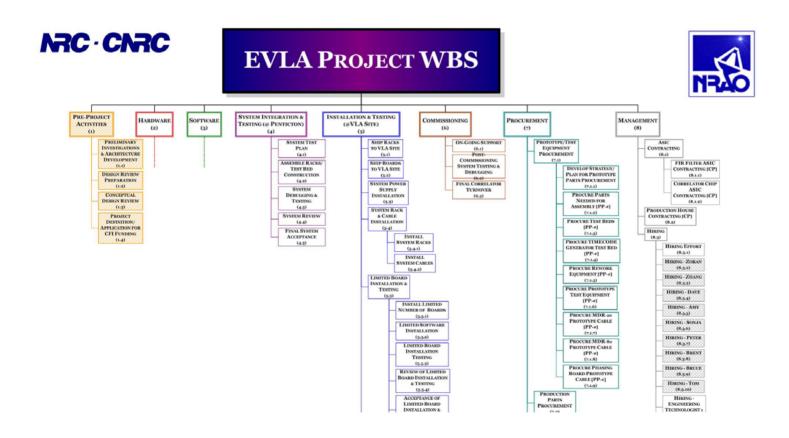


Work Done in the Last Year

- Project Management Meetings
 - WBS Re-organized & Re-formatted
 - Schedule Revamped
 - Cycles of Work Created

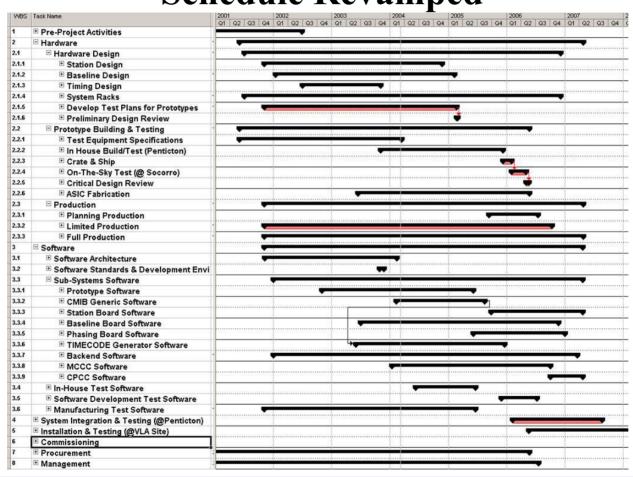


Work Done in the Last Year — WBS Re-organized & Re-formatted





Work Done in the Last Year – Schedule Revamped



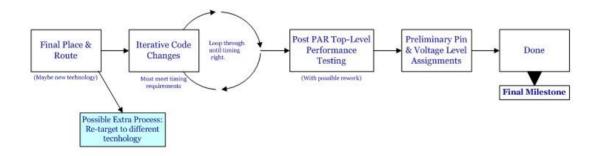


Work Done in the Last Year - Cycles of Work Created

NRC · CNRC

FPGA PROCESS (4) - CYCLE OF WORK

FDP-4: Final Place & Route





Work Done in the Last Year

- Created Activity Form
 - Time Estimates Gathered
 - Resource Allocations Identified
 - Task Definitions Gathered
 - Project Risks Identified (Not Complete)



Work Done in the Last Year – Created Activity Form

EVLA Project				nc civic
Work Breakdown Structure Dict	ionary			
	WBS Code: New (Useful) N	am e:		
Description:				
Assumptions:				
Deliverables:				
Risk Identification:				
Linkages:				
St. C.D.			ate to Complet	
Staff Resource Identificati	ion Best	Case	Worst Case	Most Likely
	14 12			

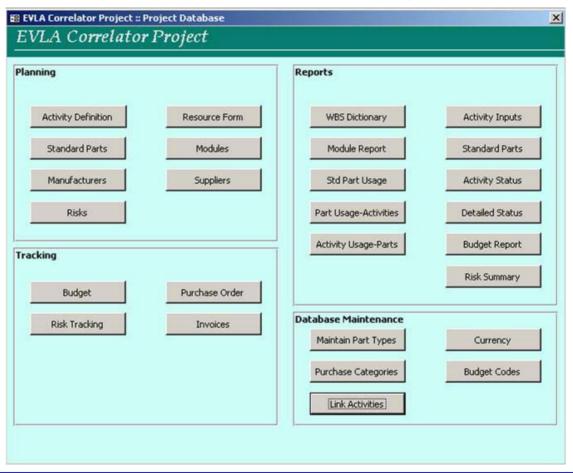


Work Done in the Last Year – WBS Dictionary Created

WBS Code: 1	Name: Pre-Project Activities
Description:	Higher-Level Task: Placeholder for lower level activities.
WBS Code: 1.1	Name: Preliminary Investigations & Architecture Development
WBS Code: 1.2	Name: Design Review Preparation
WBS Code: 1.3	Name: Conceptual Design Review
WBS Code: 1.4	Name: Project Definition/Application For CFI Funding
WBS Code: 2	Name: Hardware
Description:	Higher-Level Task: Placeholder for lower level activities.
WBS Code: 2.1	Name: Hardware Design
Description:	Higher-Level Task: Placeholder for lower level activities.
WBS Code: 2.1.1	Name: Station Design
	Higher-Level Task: Placeholder for lower level activities.
WBS Code: 2.1.1.1	Name: Station Board
Description:	Higher-Level Task: Placeholder for lower level activities.
WBS Code: 2.1.1.1.1	Name: Station Board Architecture Review
WBS Code: 2.1.1.1.2	Name: Delay Module Preliminary Design
WBS Code: 2.1.1.1.3	Name: Station Board Fibre Optic Receiver Module ICD & User Manual (from NRAO)
Description:	
Get symbol, Assumptions:	footprint, documents for this NRAO designed mezzanine card.
	ke we think it does – very little documentation at this time.
Deliverables:	
	and electrical specifications.
	ntrol Document/User Manual (from NRAO)
Risks:	to with a second to a second state of the seco
	tegrity acrossthe connectors (5% probability of occurrence). equire redesign of interface.
	ivery of documents (5% probability of occurrence).
	ys Station Board PCB Design.
Linkage:	
	omplete design and ICD/User Manual required before Station Board PCB ayout can proceed.
Resource:	
 Dave F. (60h) 	i e e e e e e e e e e e e e e e e e e e



Work Done in the Last Year – MS Access Database Created





Work Done in the Last Year – DRAO-EVLA Web Site Remodeled



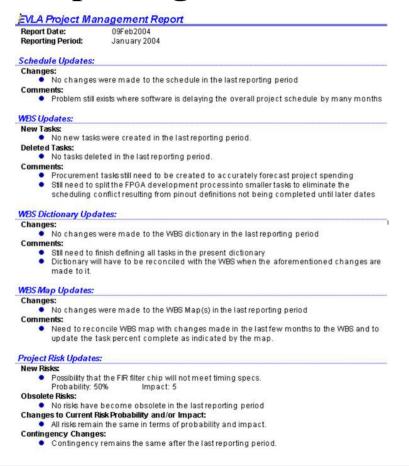


- Reporting Checklist/Plan Created
- Sample Reports Created
- Request Forms Created



Date Produced: 09Feb2004 Quarter to Report: Q1 2004											
Neekly Reports:											
Report Name						We					
	#1	#2	#3	#4	#5	#6	#7	#8	#9	 #11	#12
Staff Status Report – B. Carlson											
Staff Status Report – A. Fink											
Staff Status Report – D. Fort											
Staff Status Report – Z. Heng											
Staff Status Report – Z. Ljusic	\Box				Ц	Ц					
Staff Status Report – T. Morgan											
Staff Status Report – B. Rowen											
Staff Status Report – S. Vrcic											
Consultant Status Report – Aardvark Consultant Status Report – HDD	Н	_				_		_			Н
Consultant Status Report – HDD Consultant Status Report – Interthink	Н										
Monthly Reports: Report Name			-	Monti	n						
53 (2014) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		#1		#2		#3					
Operating Budget Report											
Procurement Report											
Web Update Report											
CAD/USD Conversion Rate Graph											
Quarterly Reports:											
Report Name			Dat	е			Cor	mple	te		
Quarterly Status Report											
Task Percent Complete Report											
Project WBS Dictionary											
Project Management Report											
Spending/Projected Spending Report											
WBS Map Updates											







EVLA Procurement Request Form

Date Submitted: 29Jan2004 Request No.: BC-29012004-0
Submitted By: Brent Carlson

Goods/Services Requested:

Part #	Name	Qty	Est. Unit Cost (USD/CAD)
16702B	Logic Analysis System Frame	1	\$18,635.00 CAD
16702B-003	256 Mbyte System RAM, 4 Mbyte Video RAM	1	\$4,252.00 CAD
16754A	4M 600MHz State/4GHz LA Mod	1	\$43,175.00 CAD
E5387A	17-ch diff. Soft Touch Connectorless Probe	2	\$3,797.00 CAD
E5381A	17-ch diff. Flying Leas	1	\$3,658.00 CAD

Supplier(s):

Agilent Technologies Steve Hall (steve_hall@agilent.com)

Web: www.agilent.com

Notes:

- You will have to iterate with me to write detailed specs for PWGSC, since there is not a sole-source justification.
- Get pricing from Agilent in USD—the CAD prices above do not reflect the rise of the CAD that well.
- The Agilent guy to contact is Steve Hall. I've attached spec sheets & email.



Set-Backs/Slow Downs in the Last Year

- Learning Curve Amy
- Overhauling the WBS
- Project Management Consultant
- Project Central



Project Management Status Now

- Current Schedule in Good Working Order but Incomplete
- MS Access Tracking Database Made but Incomplete
- Project Reporting Outline Created but Plan not Finalized

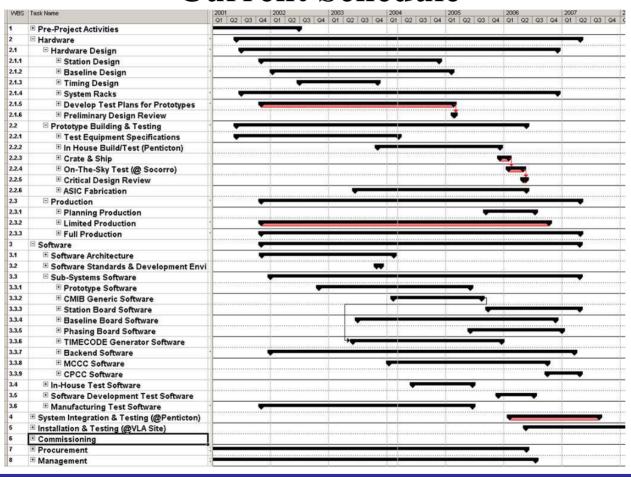


Project Management Status Now – Current Schedule

- Baseline Set beginning Today 09Mar2004
- Major Structure and Resource & Time Estimates Complete
- Project Central Running
- Procurement Tasks Need Scheduling
- Further Scheduling Needed on some Tasks (Procurement, Engineering Technicians, Some Hardware Specs, etc.)



Project Management Now – Current Schedule



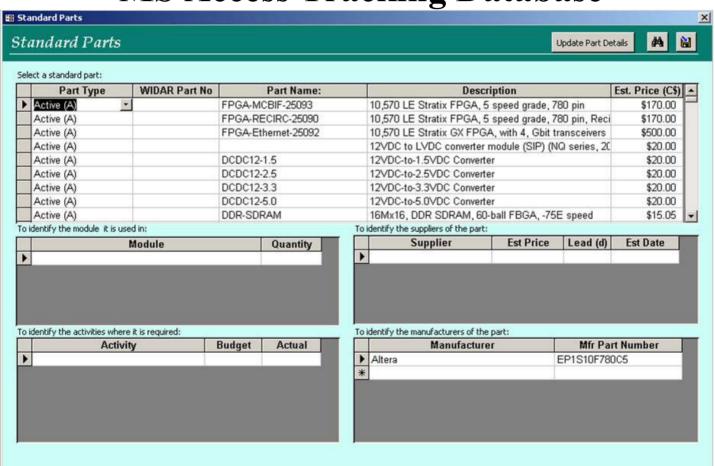


Project Management Status Now – Current Schedule

- Correlator Chip ASIC Prototype Fabrication: Jun2004 Dec2004
- PDR: Feb2005 Mar2005
- FIR Filter ASIC Prototype Fabrication: Sep2005 Mar2006
- Hardware/Software Integration Testing: Oct2005 Dec2005
- Final System Design Review (Penticton): Dec2005
- On-The-Sky Testing: Mar2006 Apr2006
- CDR: May2006
- Limited Production Run: Jul2006 Sep2006
- Full Production Run: Oct2006 Jan2007
- Start Shared-Risk Observing: Dec2007
- Commissioning: May2008 Dec2008



Project Management Status Now – MS Access Tracking Database





Project Management Status Now – MS Access Tracking Database

EVLA Operating Budget Report											
Budget Code: Inital Allocation:											
Requisition Number	Issue Date	Description	S	upplier Name	Purchaser		Travel	Software	Equipment	Misc	Committed
Committed Funds							#Error	#Error	#Error	#Error	#Error
								Total Committed Funds			#Error
									Free Balance		



Project Management in the Future

- Project Schedule
- Project Database
- Project Reporting
- Project WBS Dictionary
- Project Risk Identification
- Project Tracking/Management



Project Management in the Future – Project Schedule

- Confirm Resource & Time Estimates
- Plan & Schedule Procurement Activities
- Finish Scheduling Some Tasks
- Continue Project Central Tracking Activities



Project Management in the Future – Project Database

- Add in Remaining Information
 - Past Spending Information
 - Projected Parts/Spending
 - Project Risks
- Link Costs with Tasks
- Create/Forecast Budget
- Begin Tracking Spending



Project Management in the Future – Project Reporting

- Confirm Present Reporting Plan
- Update Reports to Current Format
- Begin Constant Scheduled Reporting
- Set up Reporting Area on Web Site



Project Management in the Future – Project WBS Dictionary

- Update WBS Dictionary to Reflect Current WBS
- Add in Remaining Missing Information
- Maintain and Publish on a Regular Basis



Project Management in the Future – Project Risk Identification

- Finish Identifying all Known Possible Risks
- Associate Risks with Tasks
- Associate Contingencies & Mitigation Plans with Risks



Project Management in the Future – Project Tracking/Management

- Restructure Weekly Meetings
- More Contact with Engineers
- No More Slipping!