Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Web site (5%)	Document goals, benefits desired outcome			Improve documentation on setting up sites																		Prepare and make presentations on experiences and s		
Monitoring sites (20%)	Install IEPM-BW at CERN	Train CERN person and help set up tier 1 & 2 remote sites						Select next IEPM-BW monitoring site (see below)	Contact next site and establish POC	Install IEPM-BW at next site	Train next site person and help set up tier 1 & 2 remote sites								Select next IEPM-BW monitoring site (see below)	Contact next site and establish POC, install swr	Train next site person and help set up tier 1 & 2 remote sites			
(Monitoring, cont.)				Contact BNL and establish POC	Set up ssh account	Install IEPM-BW at BNL	Train BNL person and help set up tier 1 & 2 remote sites						Select next IEPM-BW monitoring site (see below)	Contact next site and establish POC, install swr	Train next site person and help set up tier 1 & 2 remote sites									
IEPM-toolkit (20%)		Enhance code to enable less network traffic		Enhance code to enable reduced security requirements			Integrate new features and make code distributable			Distribute new version of IEPM												Distribute new version of I		
Analysis (student & 10% SLAC FTE, partially unfunded by DoE, also using funding from US Dept of State for NIIT Pakistan students)	Develop tool for traceroute analysis and visualization			Document traceroute analysis with a Program Logic Manual, and integrate into IEPM-BW			Develop prototype tools to automate the detection of anomalous changes in bandwdth		Compare tools, choose most appropriate, understand behavior with the parameters, and for functions the tool applies				Add visualization of the changes	Document with a Program Logic Manual, write publication				Integrate anomaly detection and traceroutes into IEPM-BW			Add web services access to IEPM-BW bandwidth measurennts and traceroutes			
Add required improvements (20%)	Add database to aid in data selection	Improve ability to select which groups of sites to display						Provide information on current status and plans for IEPM-BW. Solicit input for improvemnts to IEPM-BW			Understand and analyze the requests, decide on most cost-effective to add	Define required changes. Allocate resources to develop improvemnts. Set up a CVS repository to enable distributed development				Develop chosen requested improvements		Integrate improvements into main distribution						
Data access (10%)																			Add web services access to IEPM-BW bandwidth measurennts and traceroutes		Document how to access IEPM-BW data interactively and via web services API			
Ongoing (5%)	Provide consulting to users of IEPM-BW, keep web site up to date, organize and lead occassional phone meetings of participants																							
Unfunded by the present proposal				Use traceroute tools with NLANR AMP data		Investigate integratiion of traceroute tools with AMP							Understand I2 OWAMP data and experiment with anomalous event detection					Add OWAMP to IEPM-BW		Investigate using event detection with OWAMP data				Modify e accept I2
Site selection	interest not mentioned above include Umich, Caltech, SDSC, ESnet, IN2P3, DESY, RAL, StarLight, ORNL N.b. SLAC is already a monitoring site with about 40 remote sites and as part of our preliminary preparation we have already set up FNAL as a monitoring site, to prove feasability, and understand requirements etc. We have also contacted CERN and DESY and have agreements to set them up as IEPM-BW monitoring sites.																							
Travel	Travel to publicize project to network & Grid community, to assist new sites. Two US trips per year, 1 International per year																							

Month	25	26	27	28	29	30	31	32	33	34	35	36
Web site (5%)	status	Write & submit publication on experience & results										
Monitoring sites (20%)	Select next IEPM-BW monitoring site (see below)	Contact next site and establish POC, install swr	Train next site person and help set up tier 1 & 2 remote sites				Select next IEPM-BW monitoring site (see below)	Contact next site and establish POC, install swr	Train next site person and help set up tier 1 & 2 remote sites			
IEPM-toolkit (20%)	EPM											
Analysis (student & 10% SLAC FTE, partially unfunded by DoE, also using funding from US Dept of State for NIIT Pakistan students)	Design and develop an event filtering and warning syste				Design architecture for on demand info gathering following an anomalous event			Develop package to use existing tools to gather information			Make code distributable	
Add required improvements (20%)	Evaluate need for schedulinmg and possible solutions		Evaluate need for central access to IEPM_BW data, e.g. a central archive, iproved tools for gathering data from multiple sites etc.					Provide scheduling solution			Make code distributable	
Data access (10%)												
Ongoing (5%)												
Unfunded by the present proposal	vent detection to OWAMP data	Integrate event detection into I2 PiPES										
Site selection												
Travel												