

# Feasibility Evidence Description (FED)

## Revamping Proyecto Pastoral

# [Fall 2008]



**Proyecto Pastoral at Dolores Mission**  
135 N. Mission Road, Los Angeles,  
CA 90033  
[Phone: 323-881-0018, Fax: 323-268-7228]  
[[info@proyectopastoral.org](mailto:info@proyectopastoral.org)]

The purpose of the Feasibility Evidence Description (FED) is to make sure that all the artifacts such as Operation Concept Description, System Software Requirements Definition, System and Software Architecture Description, and Life Cycle Plan are complete, consistent by checking the feasibility involved.

## CSCI 577a Team 03

Team Members	Role
<b>Simi Singh</b>	Project Manager /Life Cycle Planner/Prototyper
<b>Aviral Sharma</b>	Requirements Engineer/ Prototyper
<b>Nidhi Kurani</b>	Operational Concept Engineer /Shaper
<b>Apoorv Vij</b>	Feasibility Engineer / Requirements Engineer
<b>Archana Vinze</b>	Planning & Control Engineer / Shaper/Prototyper
<b>Debashree Patra</b>	System Architect
<b>Shahid Shoaib</b>	Quality Focal Point

# Version History

---

<b>Date</b>	<b>Author</b>	<b>Version</b>	<b>Changes made</b>	<b>Rationale</b>
09/21/08	Apoorv Vij	1.0	<ul style="list-style-type: none"><li>• Original template for use with ICM v1.0</li><li>• Changes made to section 5</li></ul>	<ul style="list-style-type: none"><li>• Risk assessment done, Various Risk mitigation methods stated</li></ul>

---

# Table of Contents

**Feasibility Evidence Description (FED)**..... Error! Bookmark not defined.  
**Version History** ..... **iii**  
**Table of Contents**.....**iv**  
**Table of Tables**.....**v**  
**Table of Figures** .....**vi**

**1. Introduction** .....**7**

**1.1 Purpose of the FED Document**.....**7**

**1.2 Status of the FED Document** .....**7**

**2. Business Case Analysis**.....**8**

**2.1 Cost Analysis**.....**8**

**2.2 Benefit Analysis** .....**8**

**2.3 ROI Analysis**.....**8**

**3. Architecture Feasibility**.....**10**

**3.1 Level of Service Feasibility** .....**10**

**3.2 Capability Feasibility** .....**10**

**3.3 Evolutionary Feasibility**.....**10**

**4. Process Feasibility** .....**11**

**5. Risk Assessment**.....**12**

**6. NDI Interoperability Analysis** .....**14**

**6.1 Introduction** .....**14**

**6.2 System Structure** .....**14**

**6.3 Evaluation Summary** .....**14**

# Table of Tables

*Table 1: Personnel Costs*.....8

*Table 2: Hardware and Software Costs* .....8

*Table 3: Benefits of xxx System* .....8

*Table 4: ROI Analysis*.....8

*Table 7: Level of Service Feasibility* .....10

*Table 8: Capability Requirements and Their Feasibility Evidence* .....10

*Table 9: Evolutionary Requirements and Their Feasibility Evidence* .....10

*Table 10: Rationales for Selecting Architected Agile Model*.....11

*Table 11: Requirement Prioritization (Must Have Only)*.....11

*Table 12: Risk Assessment*.....12

# Table of Figures

*Figure 1: ROI Analysis Graph* .....9

# **1. Introduction**

## **1.1 Purpose of the FED Document**

## **1.2 Status of the FED Document**

## 2. Business Case Analysis

### 2.1 Cost Analysis

#### 2.1.1 Personnel Costs

Table 1: Personnel Costs

Activities	Time Spent (Hours)

#### 2.1.2 Hardware and Software Costs

Table 2: Hardware and Software Costs

Type	Cost	Rationale

### 2.2 Benefit Analysis

Table 3: Benefits of xxx System

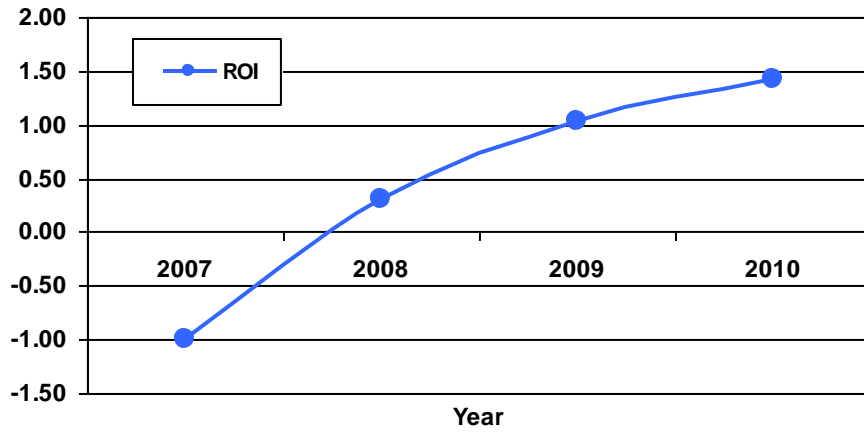
Current activities & resources used	% Reduce	Time Saved (Hours/Year)
<b>Total</b>		

### 2.3 ROI Analysis

Table 4: ROI Analysis

Year	Cost	Benefit (Effort Saved)	Cumulative Cost	Cumulative Benefit	ROI

**Figure 1: ROI Analysis Graph**



### 3. Architecture Feasibility

#### 3.1 Level of Service Feasibility

Table 5: Level of Service Feasibility

Level of Service Requirement	Product Satisfaction

#### 3.2 Capability Feasibility

Table 6: Capability Requirements and Their Feasibility Evidence

Capability Requirement	Product Satisfaction

#### 3.3 Evolutionary Feasibility

Table 7: Evolutionary Requirements and Their Feasibility Evidence

Evolutionary Requirement	Product Satisfaction

## 4. Process Feasibility

**Table 8: Rationales for Selecting Architected Agile Model**

Criteria	Rationales

**Table 9: Requirement Prioritization (Must Have Only)**

Priority	Requirements	References

## 5. Risk Assessment

Table 10: Risk Assessment

Risks	Average Risk Exposure			Risk Mitigations
	Potential Magnitude	Probability Loss	Risk Exposure	
<p><b>Security of online donation system</b> --The current online donation system is through paypal, however it is found to be more of a hassle rather than an effective resource. One hassle is that potential donors have to create an account with Paypal in order to donate to the organization. This proves to be tedious for the donors.</p>	2	8	16	<p>Start getting familiar with the COTS to be used for implementation.</p> <p>Search for various alternatives to PAYPAL keeping in mind the cost of the COTS product.</p> <p>Client should be ready to increase the budget of the project in case the development team has to go for online payment gateway as the solution.</p>
<p><b>Hardware to support website</b>--We still need to analyze whether the current hardware available with the organization is sufficient to support the new website, with all its features.</p>	2	8	16	<p>Development team to dig out more ideas for the project development considering the current hardware system the client has.</p> <p>Agreement with the client for a hardware upgrade in case the development team requires it.</p>
<p><b>Meeting the Prototype Submission Deadline</b>--The prototype submission deadline is on 13<sup>th</sup> Oct and due to difficulty in time management between development team and the client, there are chances that</p>	5	5	25	<p>Project Manager assigns and distributes task in a more efficient way.</p> <p>Time delays should be eradicated as much as possible.</p> <p>Team should work towards a</p>

<p>we may not meet deadline for the prototype submission.</p>				<p>mutual understanding between each other and improve co-ordination.</p> <p>Two persons of the development team are assigned the task of prototyping .</p>
<p><b>Stakeholder's incompatibility</b>--Issues regarding the team management .Lack of mutual understanding between various stakeholders</p>	<p>3</p>	<p>8</p>	<p>24</p>	<p>Personal meetings be called in between the development team personnel to sort out differences in case they exist and to work out a mutually agreed schedule for team meetings.</p> <p>Developers to help each other out in the time of crisis or when they have some issues balancing various things and subjects they are working on.</p>
<p><b>Previous Experience</b>--Developers do not have enough work experience on this type of project, including the secure payment gateway as required by the client.</p>	<p>4</p>	<p>8</p>	<p>32</p>	<p>Development team should consider using COTS wherever possible.</p> <p>Development team should spend ample time researching and studying projects like these in order to get the right picture of the client's expectations and requirements.</p>

## 6. NDI Interoperability Analysis

### 6.1 Introduction

#### 6.1.1 Definitions

##### 6.1.1.1 COTS / GOTS / ROTS / Open Source

Table 11: NDI Products Listing

NDI Products	Purposes

##### 6.1.1.2 Connectors

##### 6.1.1.3 Legacy System

### 6.2 System Structure

### 6.3 Evaluation Summary

Table 12: NDI Evaluation

NDI	Usages	Comments