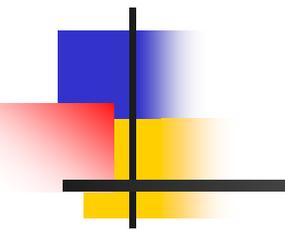


Starting Over

Planning For A New Child Support Enforcement System



A Description and Discussion

a presentation of the Office of Child Support Enforcement



Today's Panelists

Eileen Coughlin,

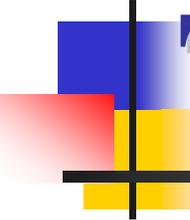
*New Jersey's Office of Child
Support and Paternity*

Nancy Starling Ross,

PSI Technologies, Inc

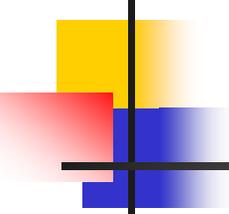
Joe Bodmer,

Federal OCSE



The Planning Phase

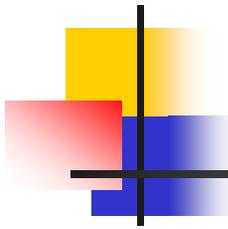
The Planning APD



Purpose of a Planning APD

First: a planning APD provides the federal government with the initial start-up data necessary to fund a state's planning activities for a new automation project

Second: an APD provides the state and federal agencies with the kind of high level data generally used to monitor a project's progress



Types of APD's

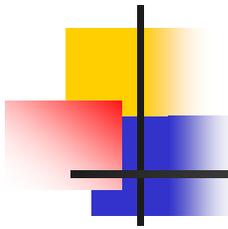
Two Major Types of APD Submissions

Planning APD

Used to seek reimbursement for planning costs

Implementation APD

Used to seek reimbursement for costs of designing, developing, and implementing a system

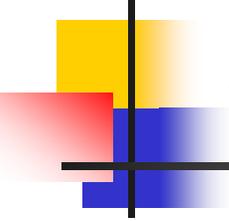


Planning APD

Generally used in support of major system development projects, as opposed to less complex computer acquisitions like hardware and software buys

This is a brief document of usually not more than 15-30 pages

Elements of a Planning APD



Problem Statement

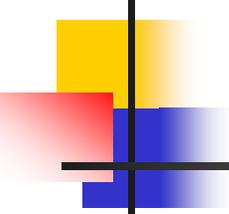
Project Management Plan (PMP)

Planning Budget

Total Project Cost Estimate

Elements of a Planning

APD



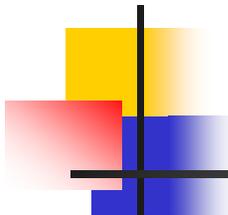
The Problem Statement

1-3 pages of general discussion of the problem(s) faced by the agency and of the need to seek a remedy

Cites examples of issues and problems being faced

Elements of a Planning

APD



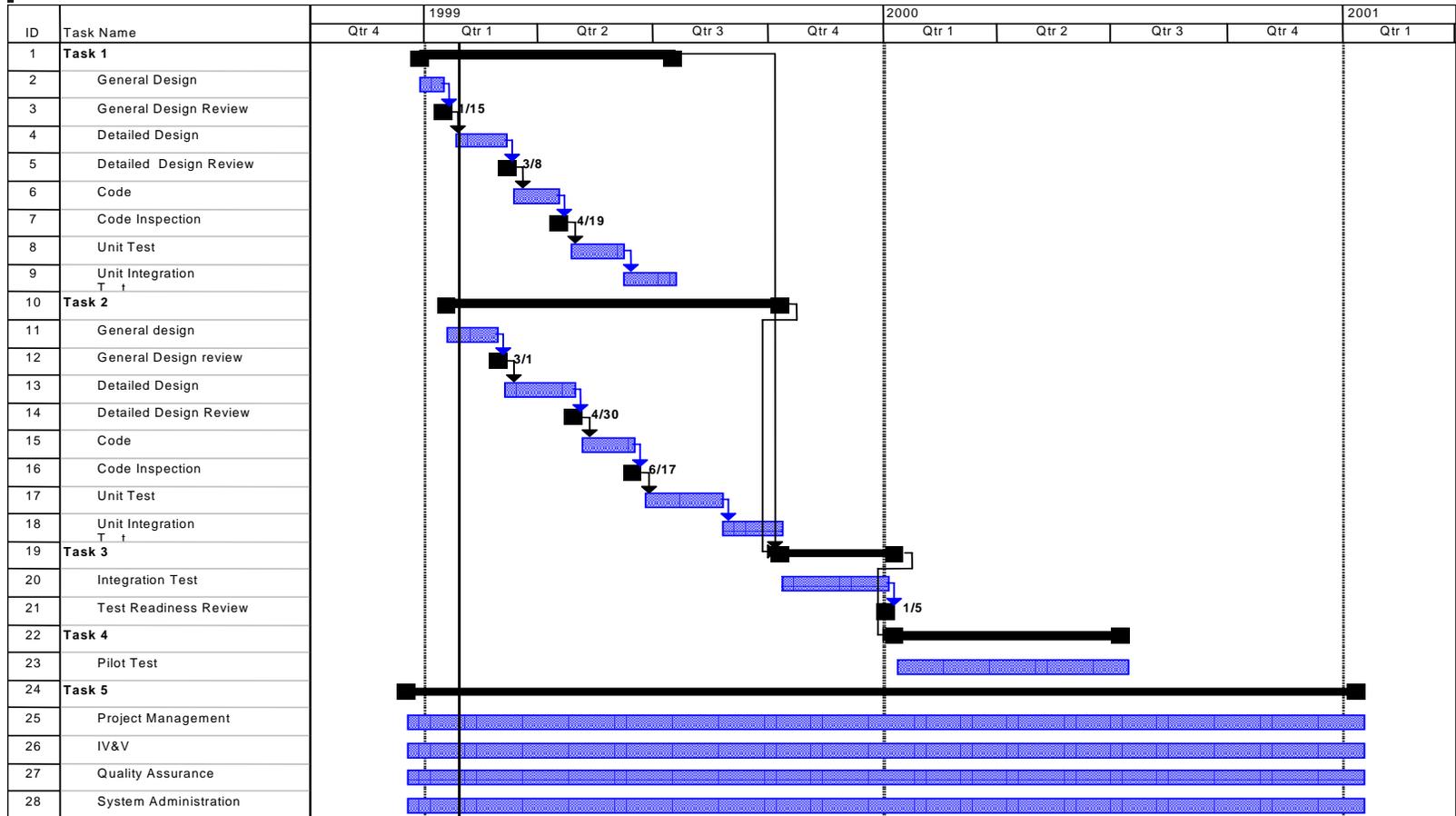
The Project Management Plan (PMP)

Provides a list of key personnel

Provides an organization chart for the planning effort

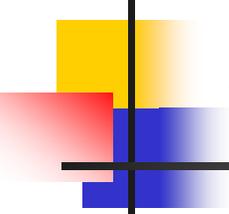
Provides a task-oriented list of planning activities to be conducted including project schedule information

A Project Schedule Example



Elements of a Planning

APD



The Project Management Plan (PMP)

The task-oriented list of activities to be conducted must include *commitments*

to conduct a:

Needs Assessment

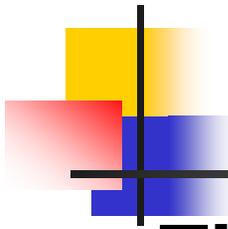
Feasibility Study

Alternatives Analysis

Cost Benefit Analysis

Elements of a Planning

APD



The Project Management Plan (PMP)

Other task-oriented activities that a PMP might include are:

- Developing RFP's / ITB's

- Conducting procurements for:

 - Quality Assurance and IV&V

 - Software development

 - Project management support

 - Hardware and Software purchasing

 - Implementation APD development, etc.

Elements of a Planning

APD

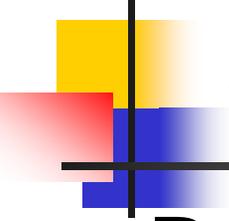
Planning Budget

Provide a budget spreadsheet showing costs broken-down by Federal Fiscal Quarter (FFQ) and summed to the Federal Fiscal Year (FFY).

Best presentation is to have one page per FFY.

Have last column of each budget spreadsheet show state and Federal shares for each FFY

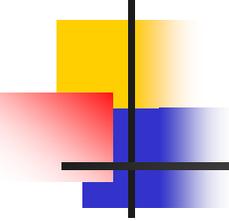
Elements of a Planning APD



Budget Categories Include:

State staff,
contractors (listed by contract), hardware and
software,
training,
miscellaneous/supplies,
travel,
data center (listing both operations and
development separately).

The Implementation APD



Executive Summary

Statement of Needs and Objectives

Feasibility Study *(Includes a summary of the study and the Analysis of Alternatives)*

Project Management Plan

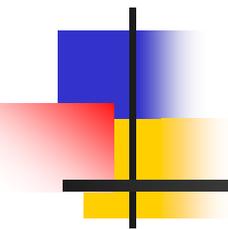
Interface Requirements

Security

Budget *(Including cost allocation, if needed)*

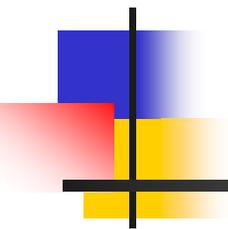
Cost Benefit Analysis

FEASIBILITY, ALTERNATIVES AND COST BENEFIT ANALYSIS

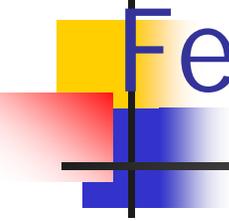


A Description and Discussion

FEASIBILITY STUDIES



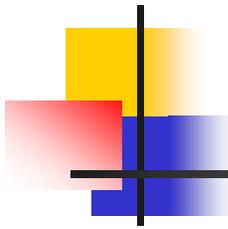
IN COMPLEX, LARGE SCALE
APPLICATION DEVELOPMENT
PROJECTS



Feasibility Studies: Purpose

The Preliminary Study That Determines Whether a Proposed Systems Project is Technically, Financially, and Operationally Viable

The Foundation for Approval of the Project's IAPD



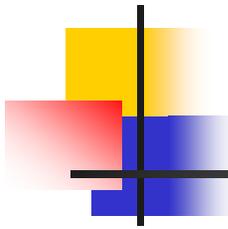
Feasibility Studies

Include an Alternatives Analysis,
Identifying Viable Options for System
Design and Development. Together,
They Provide:

Analysis of the System Objectives, Functional
Requirements, and System Design Concepts

Feasibility of Applying Automation To Economically
Improve Program Operations

Evaluation of Each of the Alternatives and Selection
of an Optimal Solution



Feasibility Study Process

Describe the Status Quo

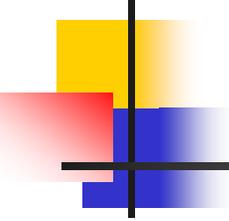
Define the Problem

Define System Objectives

Identify System Constraints and
Assumptions

Develop Initial Requirements

Assess Project Feasibility



Describe the Status Quo

Understanding of How the Current
System Works

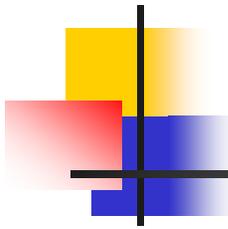
Work Flow Analysis

Technical Architecture of Hardware

Software Components

Manual Components

Interfaces

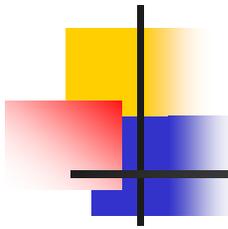


Define the Problem

What Functionality is Missing or in Need of Automation From the Current System

What Functionality is in Need of Improvement or Modification in the Current System

Obsolescence of Technological Platforms and Architectures



Define System Objectives

Functionality for the New System

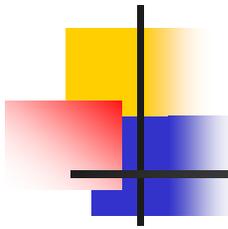
Added

Automated

Improved

Define Technical and Organizational
Objectives

Define Ranking Criteria to Evaluate
Alternatives



Identify System Constraints

Law and Regulations

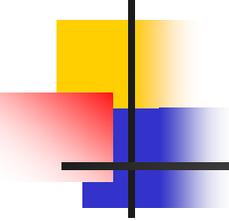
Technological

Socio-political

Financial

Operational

Functional



Identify Assumptions

Cost and Budget

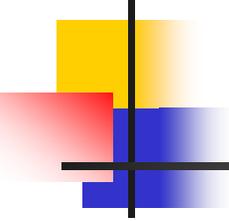
Resources

Functional and Programmatic

Technical

Organizational

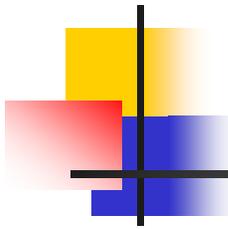
System Life



Identify Assumptions

Include All Assumptions That Will Affect
the Analysis

Document the Logic Underlying the
Assumptions

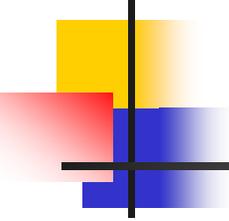


Initial Requirements

Reorganize All of the Previous Work Into a List of Requirements the System Must Fulfill

Ensure Requirements Definitions for the Current System Were Considered

Identify the Universe of Existing and Theoretical Options



Assess Project Feasibility

Assess Project Feasibility Against the
Universe of Options:

Technical

Political

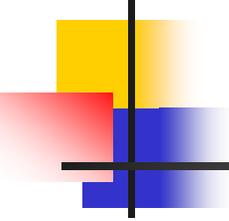
Impact on Users

Cost

Resources

Risk

Organizational

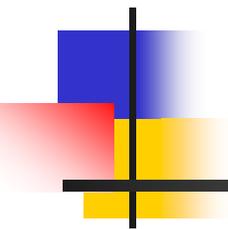


Results

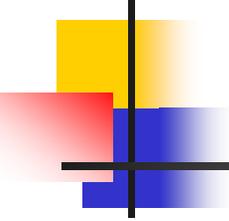
Ability to Reduce the Universe of
Potential Options to 2-4 Realistic
Possibilities

These Now Undergo Detailed
Evaluation as Part of the “Analysis
of Alternatives”

ALTERNATIVES ANALYSIS

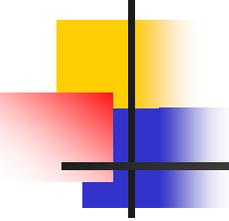


IN COMPLEX, LARGE SCALE
APPLICATION DEVELOPMENT
PROJECTS



Alternatives Analysis

An Analysis Which Considers the Alternatives Available for Automation.



Development Alternatives

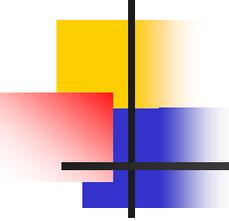
Status Quo

Enhance Existing System

New Development

Transfer

Hybrid



Technical Alternatives

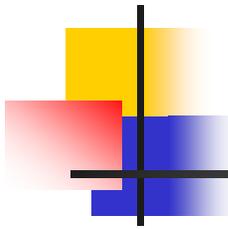
Client Server vs. Main Frame

Thin Client vs. Thick Client

Web Technology vs Closed System

Distributed vs. Centralized

Custom vs. COTS



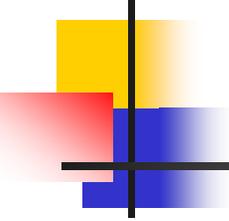
Alternatives Analysis

Map Requirements to Hardware,
Software, Processes and
Personnel.

Determine Risks and Effects

Rank Alternatives

Delete Non-viable Alternatives



Determine Risks and Effects

Program Impact

Equipment Impact

Software Impact

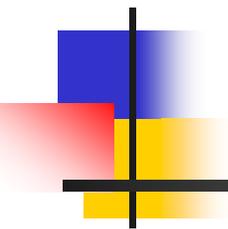
Information Impact

Organizational Impact

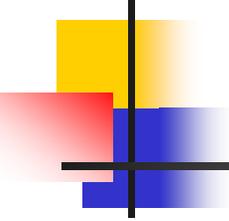
Operational Impact

Developmental Impact

COST BENEFIT ANALYSIS



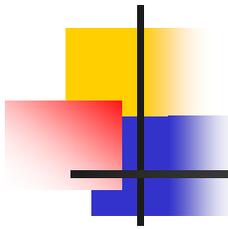
IN COMPLEX, LARGE SCALE
APPLICATION DEVELOPMENT
PROJECTS



Cost Benefit Analysis

Detailed Evaluation of the Costs and Benefits of Each Alternative Identified During the Alternatives Analysis Is Critical ...

... Pass or Fail Critical !
From a Federal Standpoint !



Costs

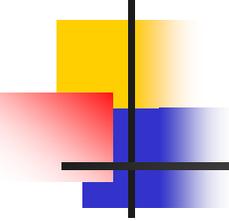
Cost the Status Quo

Cost Alternatives to Status Quo

Identify and Characterize All Costs

Determine Whether to Use Constant
or Current Dollars

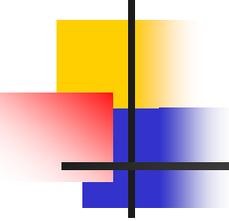
Build Each Cost Profile Year by Year



Cost the Status Quo

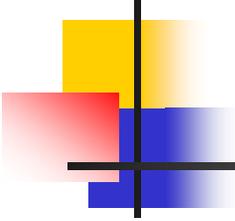
Cost of Maintaining Current
System With No Enhancements.
Used As Control Group to Evaluate
Other Alternatives.

Cost Alternatives to Status Quo



Recurring Costs

Non-Recurring Costs



Identify and Characterize Costs

Hardware

Software

Training

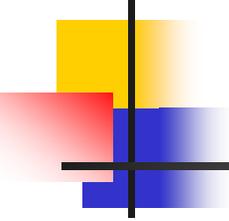
Personnel

Database Conversion

Other (examples in Guide)

Determine Constant or Current

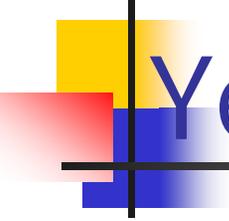
\$



Project Constant Dollar Cost and Benefits

Convert Constant Dollars to Current Dollars

Convert Future Dollars to Today's Dollars



Build Each Cost Profile Year by Year

Estimate Effort Based on Metrics

COCOMO

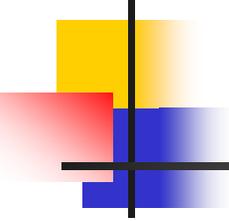
Price-S

Function Points

Compare to Similar Systems

Run Experiments

Measure Actuals

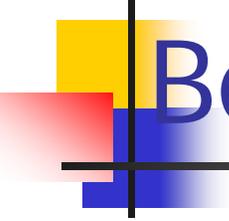


Benefits

Identify and Characterize All Benefits

Tangible Benefits

Intangible Benefits



Identify and Characterize All Benefits

Increased Collections

Reduced Error Rates

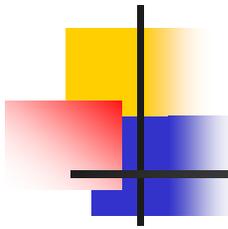
Reduced Costs

Reduced Staffing

Improved Security

Improved Access

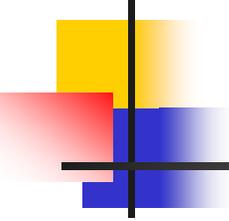
Improved Interface



Tangible Benefits

Derive Cost Saving From Benefit

Document Assumptions Used in Derivation



Intangible Benefits

List and Rate

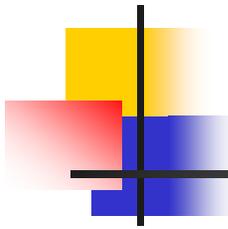
Examples

Worker Satisfaction

System Downtime

User Friendliness

Useful Life of System



Cost Benefit Analysis

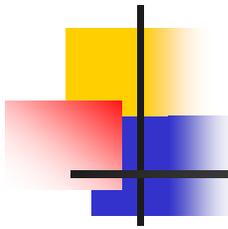
Convert Costs and Benefits to Current Dollars

Compare Quantitative Factors

Net Benefit (Cost)

Benefit/Cost Ratio Based on the Full System Life
Cycle

Breakeven or Payback



Cost Benefit Analysis: Issues

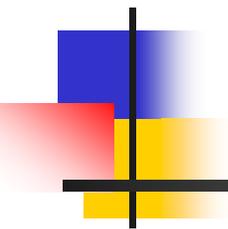
Apply Assumptions, Costs, and Benefits
Evenly Across All Alternatives

Costs Are Not Always Known but May Be
Estimated in a Range or With a Given
Probability.

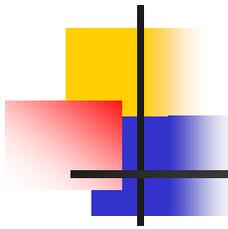
Decide Evaluation Criteria Up-front

Intangible Benefits May Matter

COST BENEFIT ANALYSIS



Evaluation Criteria



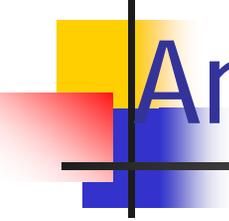
Evaluation Criteria

Are Results Credible

Are Assumptions and Estimates Reasonable

Are Results Reproducible

Are Assumptions Applied Evenly Across All
Alternatives



Analysis Guide Evaluation Criteria

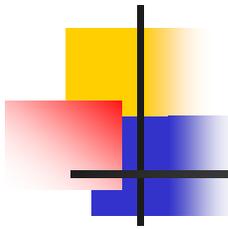
That a Status Quo is Thoroughly Described

That All Reasonable Alternatives Were
Considered

That a Full Cost Benefit Analysis to at Least
Two (2) Alternatives is Accomplished

That Alternatives Were Evaluated on
System Life Cycle Basis

That Present Value Analysis Was Used



Analysis Evaluation Criteria (cont'd)

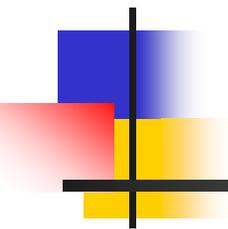
That Cost and Benefit Projections Appear Reasonable

That Net Benefits or Ratios Were Calculated for All Alternatives

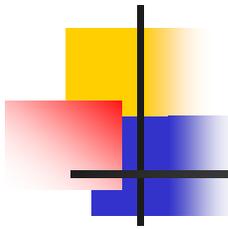
That the Study Resulted in a Clear Cost and Benefit Plan

Results Are Summarized for Selection Justification in the IAPD

OVERVIEW



OCSE'S TYPICAL REVIEW
PROCESS BASED UPON PAST
EXPERIENCE



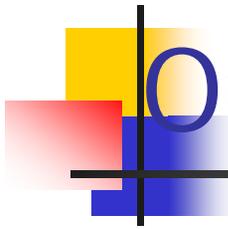
OCSE Typical FS Review

OCSE Review Process Is Approximately
Eight (8) Weeks

Uses OCSE Staff and Contractors to Conduct
the Review

Review Initiated Upon State Submittal of a
Feasibility Study and Cost/Benefit Analysis

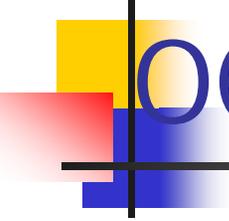
Some Prior Review and TA of Preliminary Data
(E.G. Evaluation Criteria)



OCSE FS Review: WEEK 1

Assemble Team - OCSE Lead, OCSE Contractor Staff

Start-Up Meeting to Discuss Overall Scope Collect Documentation - FS, CBA, Status Quo Document, Historical Data



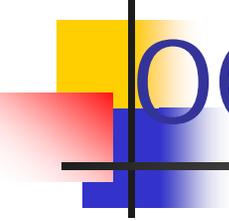
OCSE FS Review: WEEK 2

Initial Contractor Staff Review of
Documentation

Develop Initial Set of Comments

Develop List of Questions for State Staff

Develop Agenda for On-Site Review with the
State



OCSE FS Review: WEEK 3

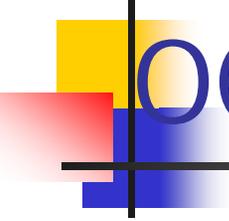
On-Site Review With State Staff

Provide Initial Comments to the State

Ask Questions Developed During Initial Review

Interview State and Their Contractors On the
Processes Used to Develop the FS

Collect Additional Documentation

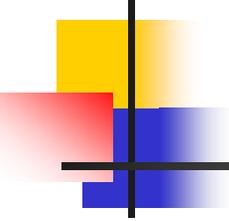


OCSE FS Review: WEEKS 4-6

Detailed Review of FS, CBA, and Other Documentation

Follow-Up Conference Calls With State Staff, As Required

Draft Report Developed by OCSE Contractor and Submitted to OCSE Lead

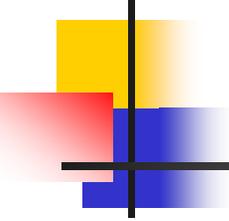


OCSE FS Review: WEEKS 7-8

OCSE Lead Review of the Draft Report
Additional Follow-Up Calls With the
State As Required

Incorporate OCSE Lead Comments Into
Report

Release Final Report



OCSE FS Review: Documentation

Final FS, CBA, and Status Quo Document

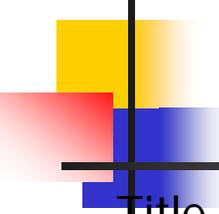
Interim Versions of Documents

White Papers

Review Correspondence (Review Comments
and Responses)

Requirements Analysis Documentation

Gap Analysis

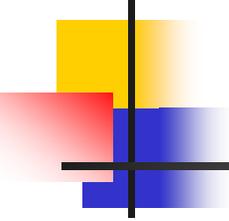


References

Title 45 Public Welfare and Human Services Code of Federal Regulations (CFR), Part 307--Computerized Support Enforcement Systems

Title 45 Public Welfare and Human Services Code of Federal Regulations (CFR), Part 95--General Administration-Grant Programs (Public Assistance and Medical Assistance)

Title 45 Public Welfare and Human Services Code of Federal Regulations (CFR), Part 74 - Uniform Administrative Requirements for Awards and Subawards to Institutions of Higher Education, Hospitals, Other Nonprofit Organizations, and Commercial Organizations; and Certain Grants and Agreements with States, Local Governments and Indian Tribal Governments

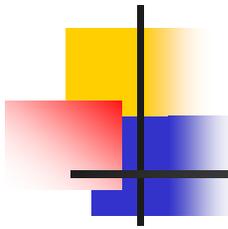


References

U.S. Department of Health and Human Services, Administration for Children and Families and Health Care Finance Administration – State Systems APD Guide, September 1996

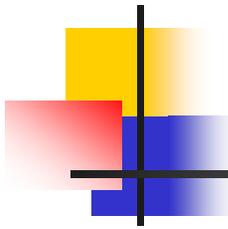
U.S. Department of Health and Human Services, Administration for Children and Families, Office of Child Support Enforcement – Addendum to State Systems APD Guide for Child Support Enforcement Systems, March 1999

Action Transmittal OCSE-AT-90-11, Policy Clarification Relating to Automated Child Support Enforcement Systems, October 9, 1990



References

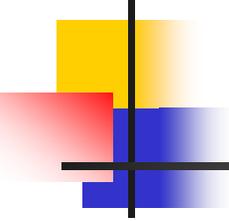
- U.S. Department of Health and Human Services, Administration for Children and Families, Office of Child Support Enforcement – Automated Systems for Child Support Enforcement: A Guide for States, Revised April 1999, Updated December 1999
- U.S. Department of Health and Human Services, Administration for Children and Families – Feasibility, Alternatives, and Cost/Benefit Analysis Guide, July 1993
- U.S. Department of Health and Human Services, Administration for Children and Families, Office of Child Support Enforcement – Cost/Benefit Companion Guide, August 1994
- U.S. Department of Health and Human Services, Administration for Children and Families - Companion Guide 3: Cost/Benefit Analysis Illustrated for Child Support Enforcement Systems, September 2000



Closing

Questions & Answers

<http://www.acf.hhs.gov/programs/cse/stsys/!cse.htm>



Thanks To Our Guests

Eileen Coughlin,

*New Jersey's Office of Child
Support and Paternity*

Nancy Starling Ross,

PSI Technologies, Inc

Joe Bodmer,

Federal OCSE