

Typical Process for any EPC-Engineering Procurement Construction Project

CHART-1

Describes a 3 Year Project/250 miles/ EPC project completed with any Engineering Company.

CHART-2

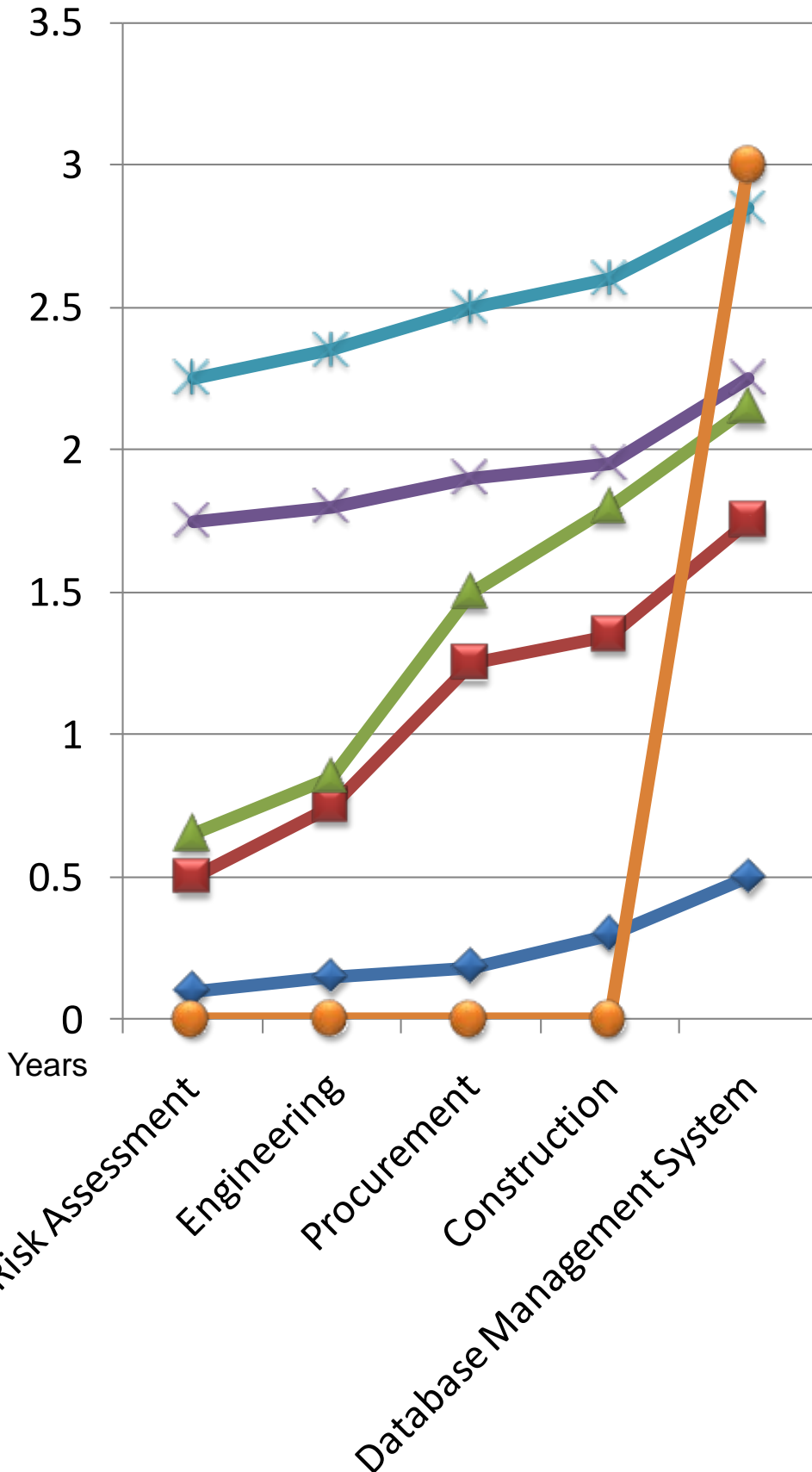
Describes a 3 Year Project/250 miles/ EPC project completed while using ROUTE MAPPER Enterprise.



- I. Every project goes through phases and transitions that are all subject to high volume investigations for Risk Assessment before any project moves into any true Conceptual Phase.
- II. Once the project has moved into a Conceptual Phase, a real centerline right-of-way corridor route is drawn up with Quad Maps to describe the area encompassed by the proposed project while supporting AutoCAD.
- III. Then the project moves into a Preliminary Phase where Route Maps are developed for Engineering Design and hydrology while supporting AutoCAD.
- IV. Now the project is ready for the Survey Phase. Then a Survey Crew is hired to investigate and survey all crossings and right-of-way acquisitions for the proposed centerline right-of-way corridor route with a GPS data collector. Then after the raw Survey data has been collected, the User or Survey Tech will dump the raw survey points from the GPS data collector while supporting AutoCAD. Then the Survey Tech designs the centerline from the points and sets the layers for the project while also drawing up the linework for crossings and station offsets.
- V. The next transition is from Route Maps to another phase for Alignment Sheets so the design drafter can setup all the bands for stationing offset and crossings, material, ownership, workspace and wetlands while supporting AutoCAD. When the Survey Phase is complete.
- VI. Now the project is ready for the Construction Phase. The Alignment Sheets have been approved by the Engineers with signatures and are almost complete for final Construction. The Construction Alignment Sheets are used for building all materials for that project in the field.
- VII. When construction is completed, the project moves into another phase called AS-Built. This is where the Construction Alignment Sheets move into a completion phase and the existing stationing reflects all materials and conditions out in the field.
- VIII. Now the project is ready for GIS conversion. This is where a company takes the base file with all the existing materials, linework, station offsets and adds a unique character callout to describe that entity. Tabular Data Tables are used for capturing all geospatial data. Tabular Data Tables are called out differently depending on what software you're working with. If you're working with a GIS software, they are called Attribute Data Tables, if you're working with AutoCAD Map they are called Object Data Tables. The true concept of all GIS mapping is a graphical representation of a database with attribute data tables attached and linked to those geospatial entities. So if there is a centerline of a highway we are crossing with the project, you would attach a Tabular Data Table to that entity to describe the name or place.
- IX. Once the project has all its Geospatial Data Tables Attached in the GIS database then the database gets added to an internet server for all future Database Management Systems.

ROUTE MAPPER Enterprise is much more than a sheet generator, you can count on no downtime having to pre-set anything within the software before you can use it, just get in and go. ROUTE MAPPER Enterprise was built with unique inventions and everything an Engineering Company, Surveyor, Survey Tech, Design Drafter, GIS Mapper and Geospatial Specialist would need to start, complete and maintain a survey centerline right-of-way corridor construction project. Just for one minute, imagine if you had all the attribute data tables already fixed along your surveyed centerline right-of-way corridor construction route at the initial first stage while still in the process of supporting AutoCAD. This means all your Tabular Data Table Entry could have been taken care of in the Preliminary Phase instead of waiting till the last Phase of the project. ROUTE MAPPER Enterprise supports AutoCAD Maps object data table technology. ROUTE MAPPER Enterprise comes with already pre-built hundreds of Tabular Data Tables designed for all industries and designed to meet Engineering requirements, codes, standards and specifications. This will insure fast accurate interfacing with the leading GIS software because both CAD and GIS software applications Tabular Data Table technology are compatible with each other. ROUTE MAPPER Enterprise also comes with a unique invention called the Geospatial Editor for manipulating hundreds of attribute data tables or tabular data tables at a time. ROUTE MAPPER Enterprise has another unique invention that takes care of your centerline breakdowns automatically without all the Engineering geometry. ROUTE MAPPER Enterprise is an error free software program package built on three platforms in one. A GIS & Geospatial Platform, a Survey Tech Platform and a Design Drafting Platform. All of our industries standards have been put together in this incredible software for easy-fast-better map creation. ROUTE MAPPER Enterprise is the only complete Survey, Design Drafting, GIS & Geospatial Solution on the market today for Land and Sea.

Example: EPC-Project Completed by any Engineering Company.
3 Year Project/250 miles/EPC-Engineering Procurement Construction



Conceptual

- Design Drafting
- Supporting AutoCAD

Preliminary

- Design Drafting
- Supporting AutoCAD

Survey

- Design Drafting
- Supporting AutoCAD

Construction

- Design Drafting
- Supporting AutoCAD

As-Built

- Design Drafting
- Supporting AutoCAD

GIS Conversion

- Attaching Attribute Data Tables
- Tabular Data Table Entry/Linking
- Supporting GIS Software



Example: EPC-Project Completed with *ROUTE MAPPER Enterprise*. 3 Year Project/250 miles/EPC-Engineering Procurement Construction

