

# *Document Production*

*in five stages*

*Pragma ADE*

# Conceptualization

*Pragma ADE is specialized in developing complex documents. It is essential that a document is maintainable over long period of time and can be generated in several instances. For example as a book, an interactive document or as a document composed by the reader. Before starting the production stage we must perform the following actions:*

- make an inventory of wishes and possibilities*
- study and discuss **examples***
- formulate a program of requirements and an estimate of expenditures*

*Not every document is suitable for re-use and maintenance. This depends on the format in which it is stored and the quality of its markup.*

# Conversion

*When document sources do not have a tagged format like xml the sources are converted. The typesetting quality of the preliminary versions of the documents depend on the quality of the internal structure.*

- inventarisation of the existing structure*
- adaptation of the structure (adding more structure)*
- neutralising typesetting on behalf of re-use*
- starting conversion on a large scale*

*Conversion is done by tools that are adapted for their specific use. We have experienced that most documents that look consistent in structure during a quick and dirty inventory may be internally very inconsistent.*



# Typesetting

*When the structure is consistent and the functionality and requirements are defined the document layout is designed. The layout and functionality is determined by the requirements or wishes formulated by the publisher or the specifications of the end user. We strive towards a high typographical level of output but this can only be done within the bounds of easy (automated) reproduction.*

 *designing the document layout*

 *development of functionality*

*When series of documents have to be generated the definitive layout is determined after a representative number or the last documents are processed.*



# Optimization

When all sources are converted and the definite versions documents are produced we can enter the stage of optimization. In most cases this comes down to:

- testing and restructuring the sources
- testing and redesigning the navigation
- producing the documents

The documents are generated in the pdf-format unless other formats are desired. Distributing the documents will lead to reactions of users and other requirements on layout and functionality may be formulated. When sources are coded adequately these new requirements can be met quite easily.

# Maintenance

*After the first series of products are produced and distributed workflows are designed and put in effect on behalf of long term maintenance.*

- documenting methods*
- developing standard tools*
- freeze the layout*
- documenting the workflow*

*Detailed arrangements are made for the necessary maintenance and support.*

