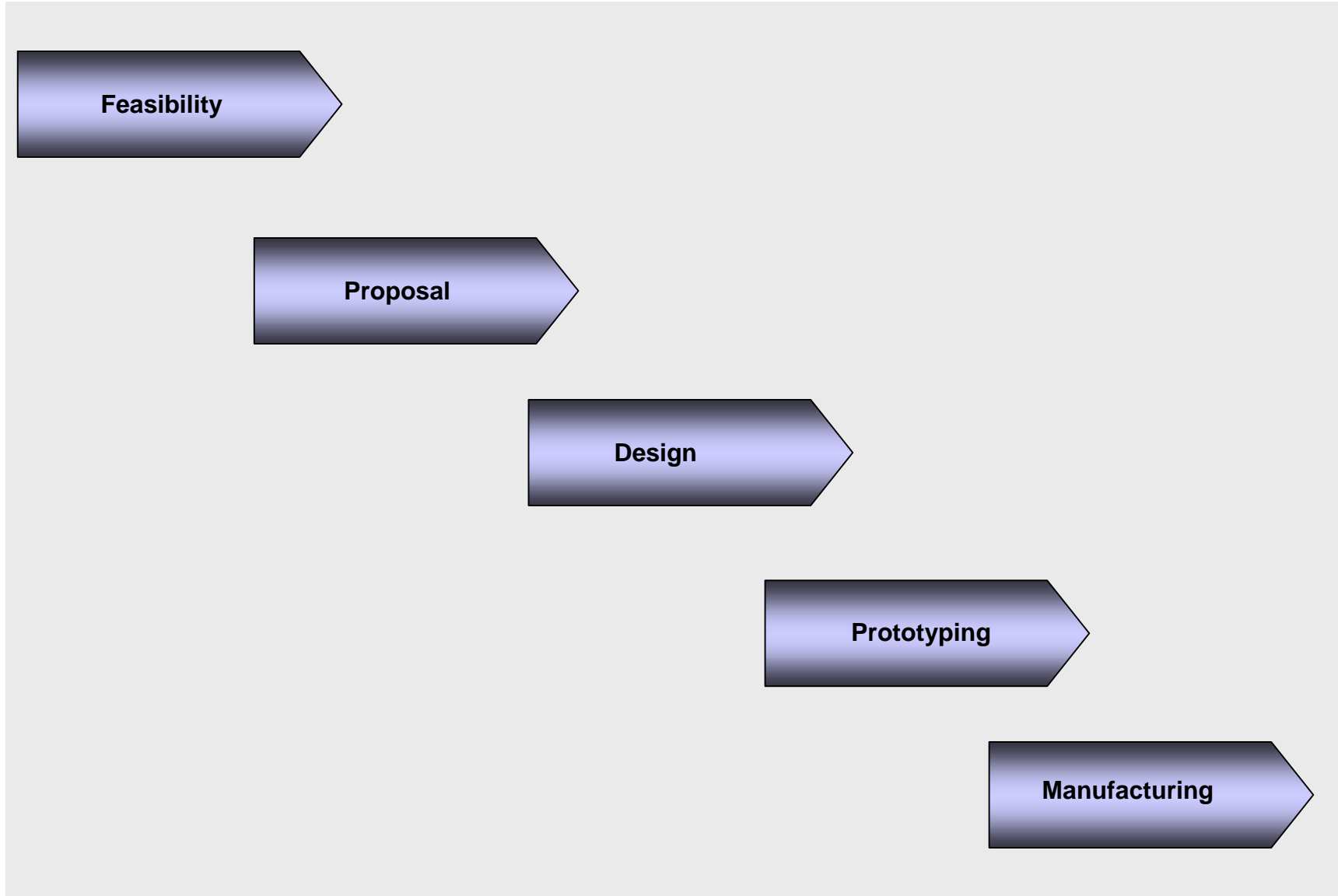




SIP Development Flow



 www.3d-plus.com





Feasibility



Why is the most important document to proceed successfully a development ?

RFQ FORM



	REQUEST FOR QUOTATION	3DPV0130-1	
		Date de création	24/04/03
		Date de dernière révision	24/04/03

Commercial Engineer :	Date :
-----------------------	--------

Data in bold are mandatory to start the RFQ process.

GENERAL INFORMATION

CUSTOMER :

NUMBER OF EMPLOYEES :

REPRESENTATIVE :

MARKET (Space, Military, Civil Avionics, Medical, High-end computer, Industrial equipments, telemetry):

PROGRAMME AND/OR APPLICATION :

PRODUCT: Standard Custom R and D

PART NUMBER (standard product) :

PROJECT NAME (custom product or R & D) :

BUSINESS INFORMATION

QUALITY LEVEL :

OTHER QUALITY REQUIREMENTS :

QUANTITIES :

TARGET PRICE :

COMPETITION :

COMPETITIVE TECHNOLOGY:

CUSTOMER TECHNICAL CONTACT :

REQUESTED DATE TO REMIT QUOTE :

INFORMATION TO BE GIVEN BY SALES ADMINISTRATION

QUOTE NO :

3D PLUS project leader :

PROPOSED PRICING (USA only) FROM :

Enclosed : RFQ input/output document.

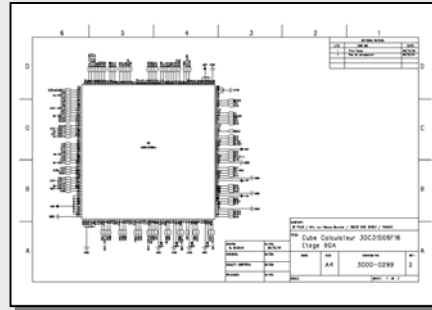
	REQUEST FOR QUOTATION	3DPV0130-1	
		Date de création	24/04/03
		Date de dernière révision	24/04/03

NOTA : Boxes marked in black are mandatory to establish the quote	PS : Series production CRP : Design of new product
---	---

		INCOMING DATA	OUTGOING DATA
		Electrical Data	Outgoing documentation
PS	CNP		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Electrical schematics or functional diagramme	<input type="checkbox"/> Cost price (quote)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	I/O signals	<input type="checkbox"/> Leadtime (planning)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Power supply/Voltage	<input type="checkbox"/> Mechanical plan
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part list	<input type="checkbox"/> Pin out
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Specific components	<input type="checkbox"/> Detail specification
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Part number	<input type="checkbox"/> Product datasheet
		Mechanical Data	<input type="checkbox"/> Matrix of Conformity or SOW
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Volume constraints	Other customer's demands not listed above
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Weight constraints	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Type of mounting requested by customer	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Module varnished or not	



- Schematic analysis





Feasibility

Proposal



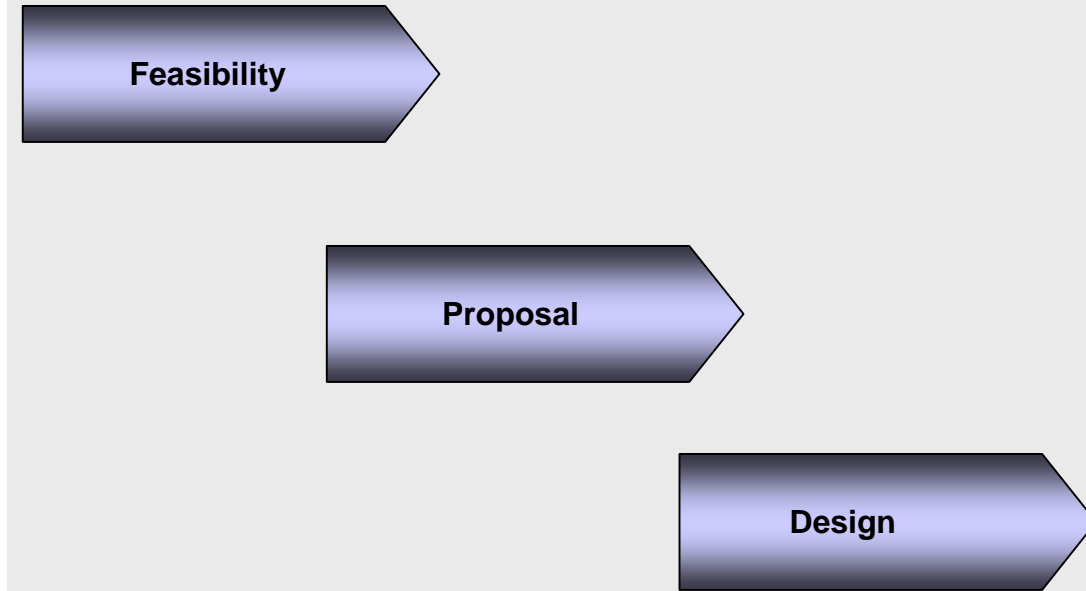
Create a realistic proposal of work

- Project scoping
- Estimation of effort & costs

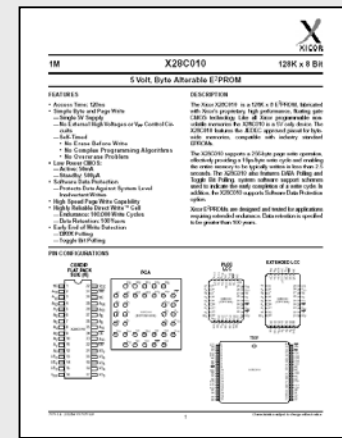
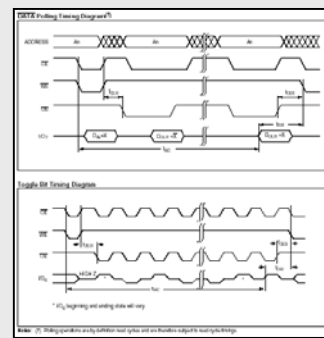
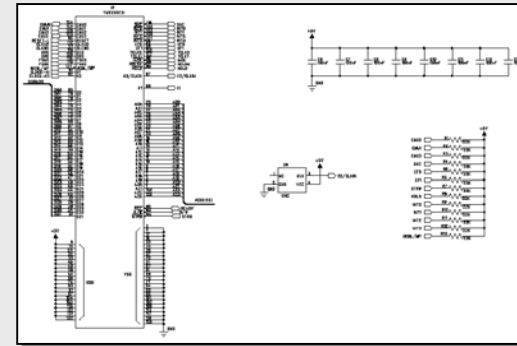
Including:

- Detailed description of scope of work
- Detailed analysis of components incl. obsolete
- Recommended design framework
- Estimation of size, weight & cost savings
- Expected & minimum savings in size, weight & cost
- Price for next steps

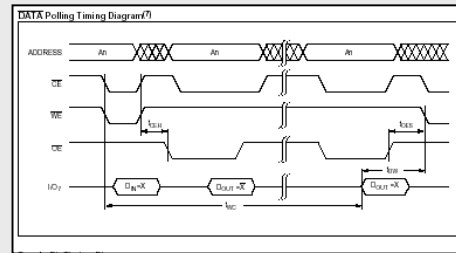
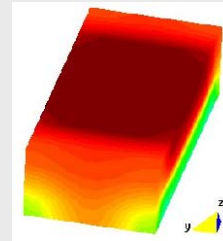
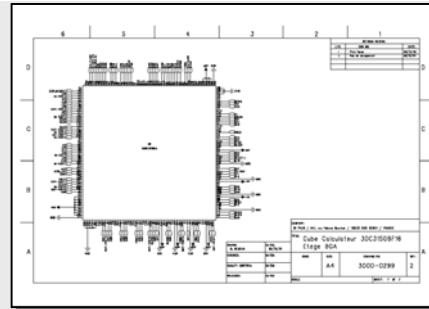
Evaluate benefits to the Customer



- Customer Schematic Diagram or functional diagram (with interconnections)
- Module I/Os
- Power supply / consumption
- Part list
- Datasheet for specific components
- Design recommendations
- Volume constraints
- Weight constraints
- Type of mounting
- Electrical Test Specifications

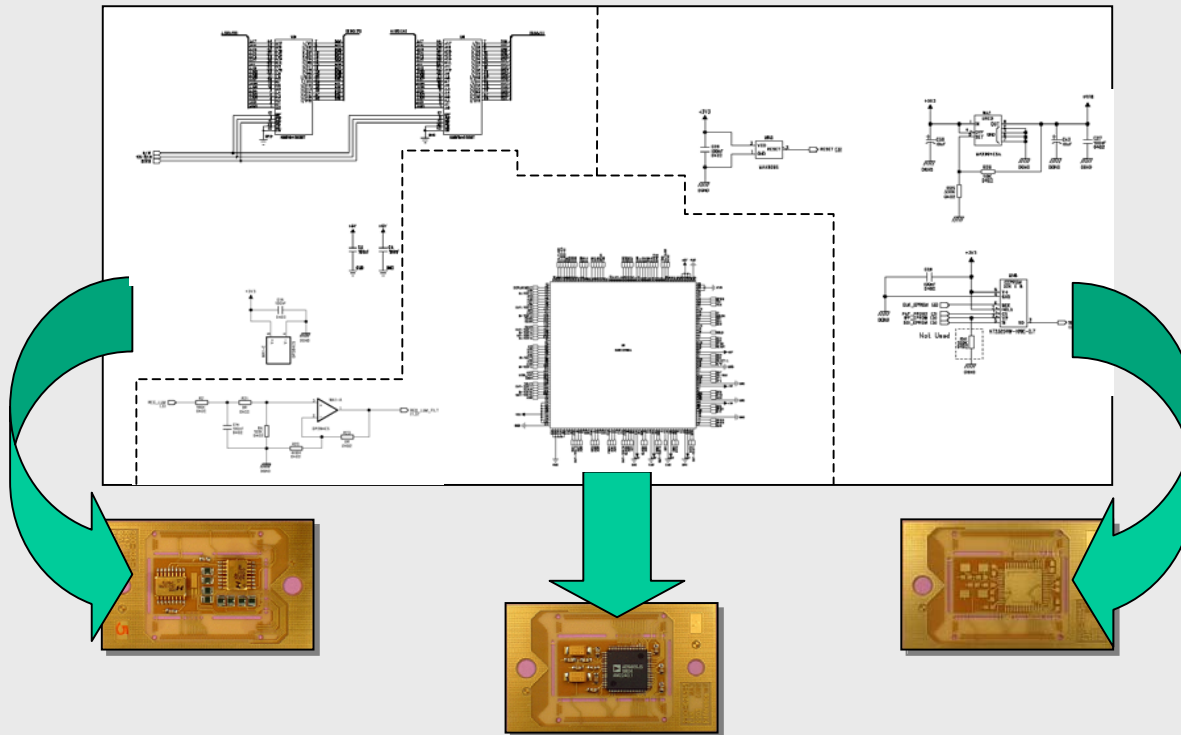


- Schematic analysis
- Power analysis
- Mechanical analysis
- Stacking study

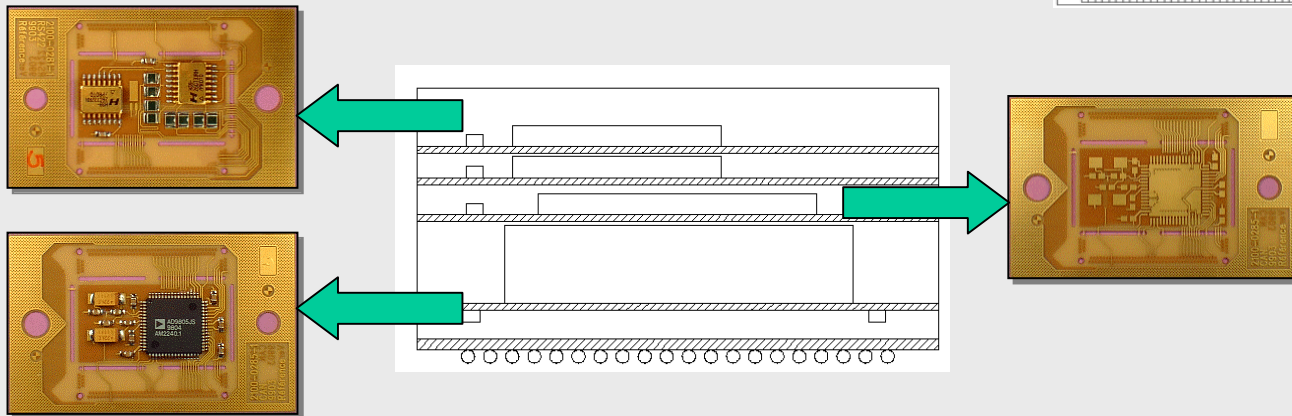
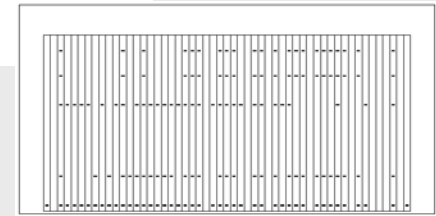
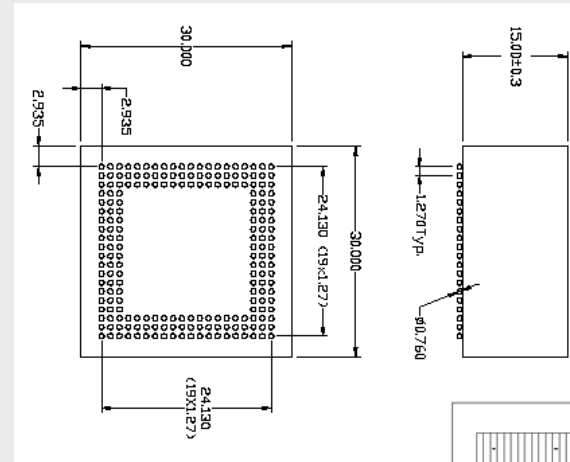


Ending with a Design Requirement Review (DRR) and acceptance by customer

- Circuit breakdown & Flex schematic design
- Flex layout

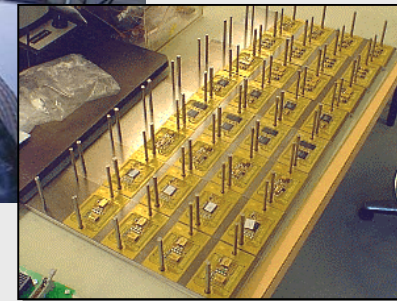
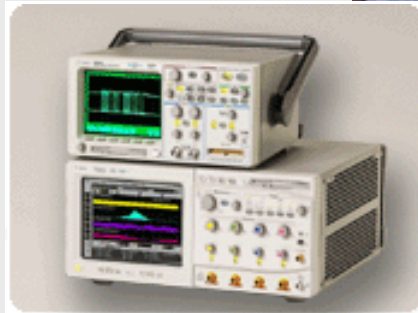
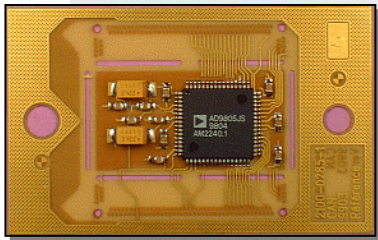
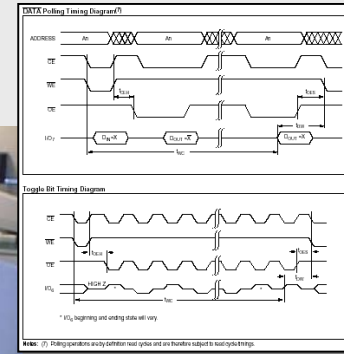
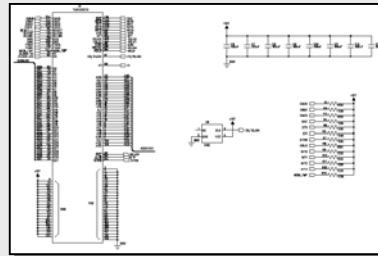


- Module mechanical drawing
- Laser Etching drawing
- Design file
- Manufacturing file

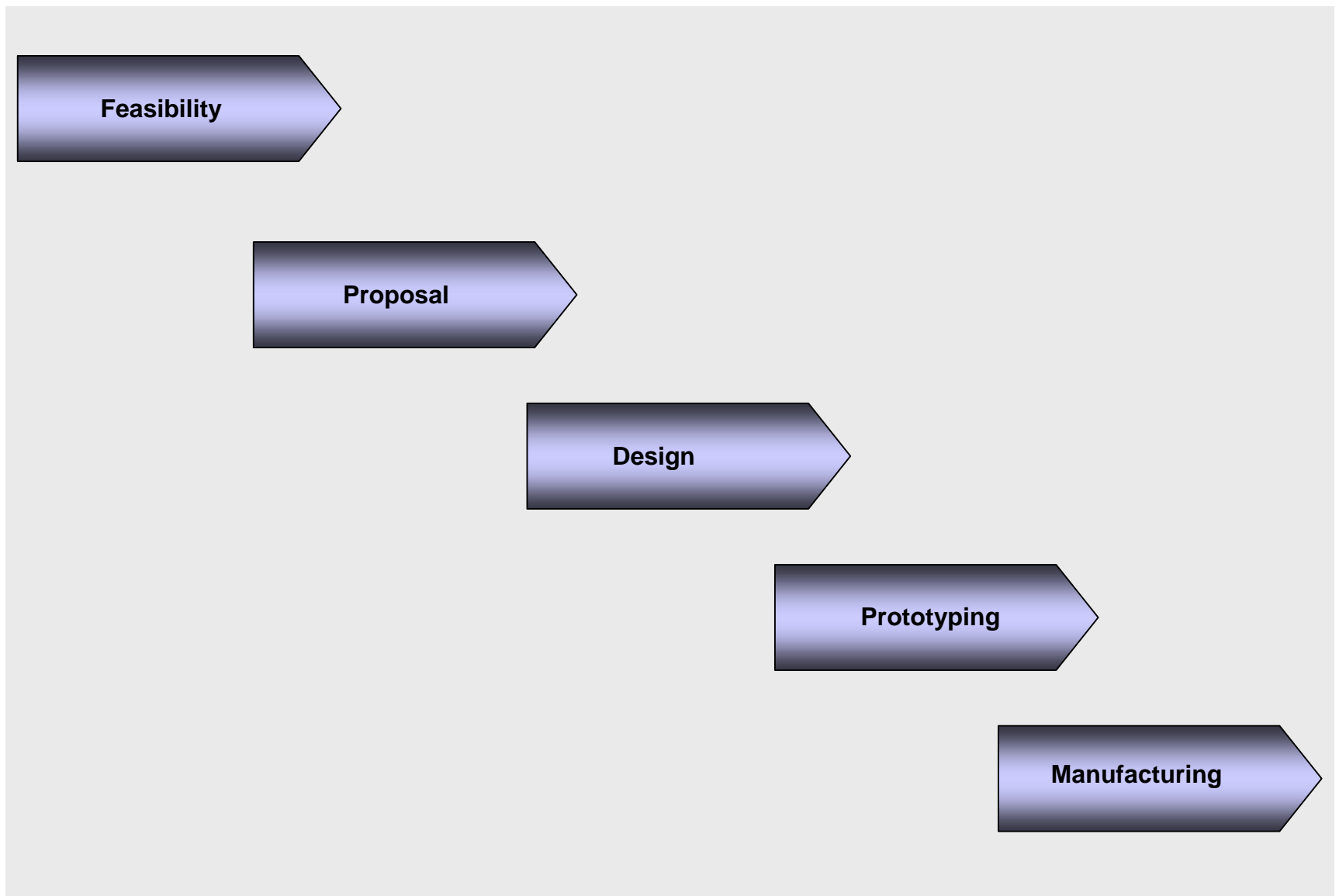


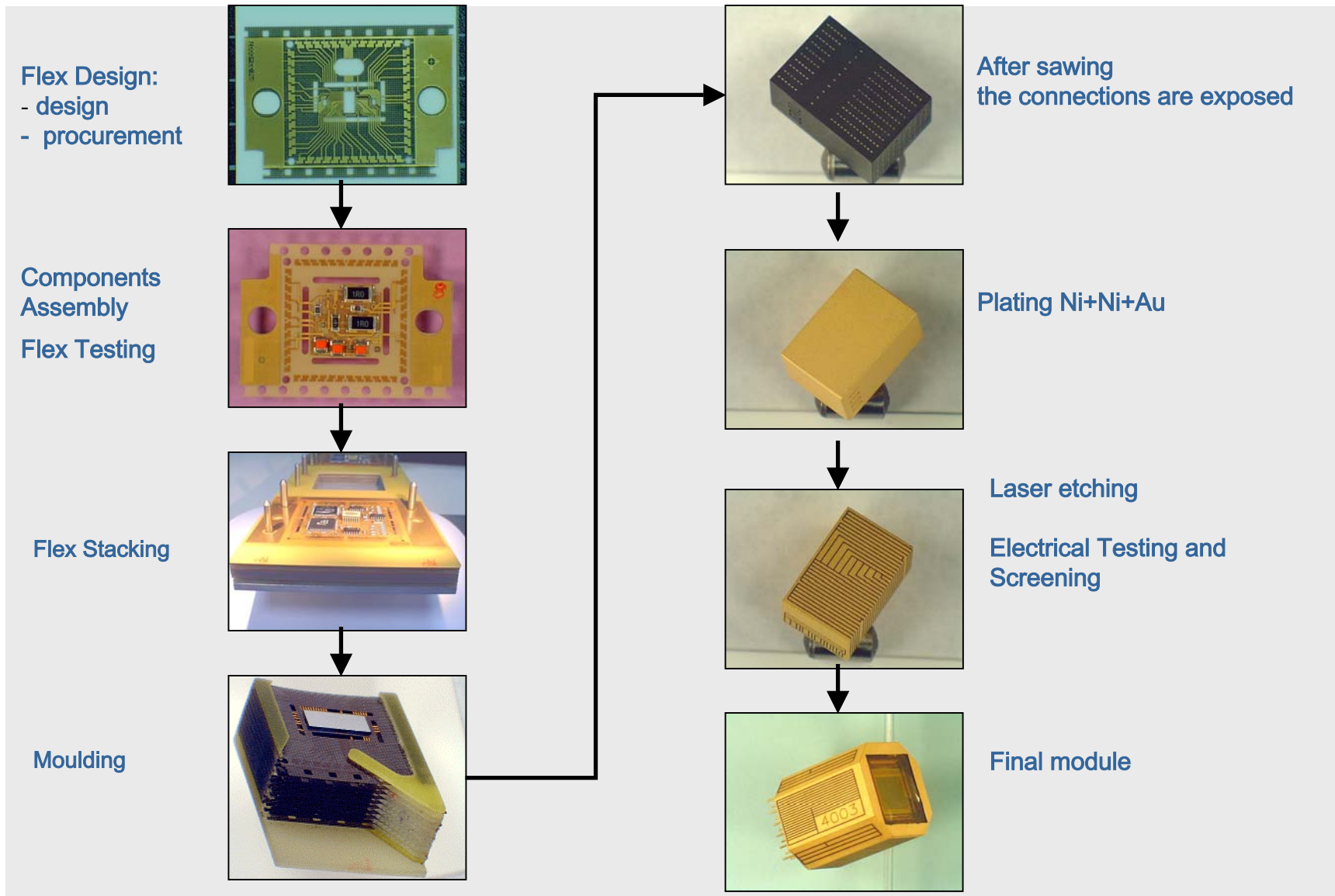


- Test development
- Test board design and manufacturing
- Test tools



Module design, electrical test tools end with a Preliminary Design Review and acceptance by customer







- Review of results and any problems encountered with the prototype(s)
- Evaluate changes of product timescale & quantities
- **Recommendations for further development activities and / or product implementation**



Process Documentation

PID: 3300-0546-3

Modules Quality Levels (3DPA0850)
Incoming inspection Methodology (3DPE1160)

Procurement & Inc. Inspection Specification:

- EEE Components (3DPA0350)
- Printed Circuit Boards (3DPA0460)
- Epoxy resin & Glue (3DPA0040)
- Mechanical parts (3DPA0050)
- Plating - subcontracted step (3DPA0090)
- MAPSIL 213B (3DPA1170)
- Solder alloy (3DPA1200)
- Solder balls assembly (BGA) on module – subcontracted step (3DPA1160)

Design Procedures (3DPIxxx)

Manufacturing Procedures (3DPFxxx)

Test & Control Procedures (3DPCxxx)

QA Procedures (3DPQxxx)

Product Documentation

Detail Specification (3DPAxxxx)

Design File (3300-xxxx)

End Item Data Package (3300-xxxx)

LAT report (3300-xxxx) – components & modules

Technical analysis (thermal, reliability, radiations, ...) (3300-xxxx)

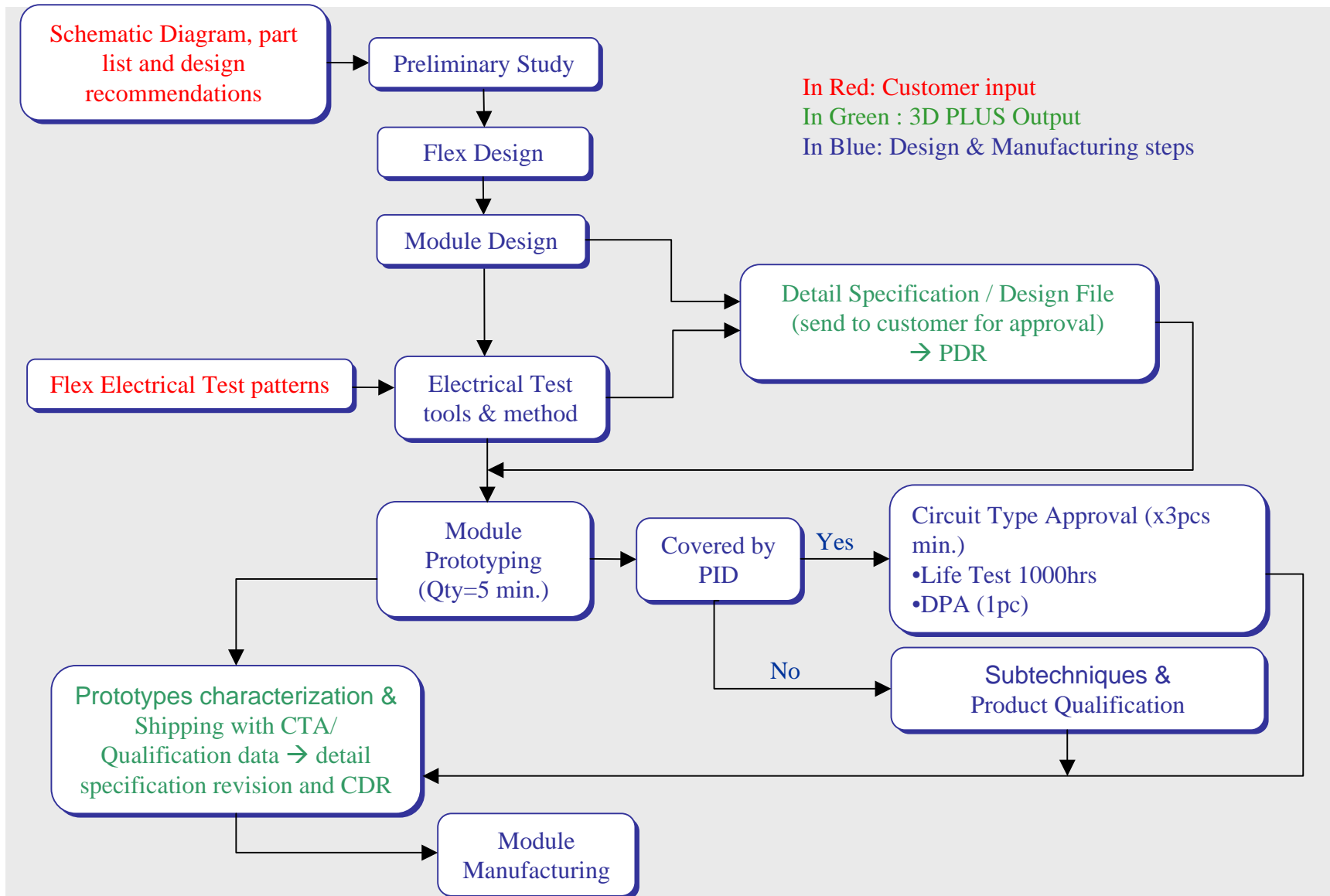
- **Detail Specification (send to customer for approval)**
- **Design Files**

		ORIGINE: M PILES S.A. 641, rue Blaise Pascal - Z.I. 78512 BUC-Cedex	
DOSSIER DE DEFINITION 3300-0867-2			
Module MEDIA			
Produit n°: 1026-0018-2			
Rédigé par	Responsabilité	Date	Signature
B. FAUPE	Groupes Bureau d'Etudes		
Approuvé par	Responsabilité	Date	Signature
R. BOUAGUE	Groupes Bureau d'Etudes		
F. SOUFFLET	Responsable Méthode		
B. GOUPEY	Responsable Normes perso		
D. BLAIN	Responsable Assurance Qualité		
Date originale:	20/05/2003	Auteur:	Doc
REFERENCE DU DOCUMENT		CLASSIFICATION SOCIETE	
Type Doc	N° Document	Revisé	Code Interne
	3300-0867	2	FR
		Confidentialité	Non protégé
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Version de Révision: " 001 000 " 1			

- **Prototypes Tests & Shipping with CTA/Eval/Valid. Data**
- **Detail specification revision and CDR**

- **And... the modules**





Don't hesitate to contact us to discuss your needs...in the 3rd Dimension :

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e-mail : sales@3d-plus.com