ModArt Project Goals:

• To develop Principles, Methods and Tools for Parts Manufacturing including follow up systems for continues improvement at the Factory Floor as well as the Engineering Offices by using Digital Models.

  • Generic and configurable production development processes based on the demands from the manufacturing industry.

  • Software from several leading suppliers are used.

  • Digital models in international standard and native formats of Parts, Tools, Production Equipment and Factories are used as input/output between systems.

  • Demonstrations and Pilots at KTH and Scania.

• To develop user friendly and powerful engineering manuals “Pilots” to support and guide Engineers in Industry as well as Teachers at R&D and Education Organisations.
Models of parts and production resources are used as input/output in the production development processes as well as carrier of experience and knowledge.
The industrial development processes and the relations between these processes are described in Astrakan models.

http://www.astrakan.se/
“PILOTS” will make it easy to implement and use the results

Pilot = Lots (Swedish for Pilot at a Ship)

ABL - ArtikelBeredningsLotsen (Process Planning Pilot)

FPL - FabriksProjekterings Lotsen (Factory Design Pilot)

PIL – ProduktionsInvesteringsLotse (Production Equipment Investment Pilot)

FBL - FörBätttringsLotsen (Continuous Improvement Pilot)

MIL Modellerings- och IT-Lotsen (Modelling and Investment Pilot)
Syfte: definiera LOTS baserat på de identifierade begreppen

Verkstadsprojektör
ProduktionsTekniker
Maskinanskaffare
Verkstadspersonal
Beredare
Elever i industri-gymnasiet
Högskola

Specification of a Pilot

 Lotsägare → Förbättringsgrupp för lots → genomför → FoU-projekt

 Lots 

äger

Lots-användare 

använder 1:M

Modeller (standardiserade)

utnyttjar 1:M

Ind. utv. Process 

stöds av

Metoder 

stöds av

IT-Verktyg

Skrivna

Grafiska

Lättlots

Mästerlots

Konfigurering

Regler

Guide

Förändringsförslag (gemensam) Begreppssapparat

bygger på

länkar till

Standarder

resulterar i
Modelldriven Artikeltillverkning – ModArt 2006 11 07

ProduktionsInvesteringssLotsen

Leveransbevakning

Syfte
Fasens huvudsfär är att säkerställa att leverantörer teknisk samt att tidplanen hålls.

Underlag
- Räkningsunderlag

Dokument för arkivering

http://pil.iip.kth.se
STEP 1 mainly 2006:

**The future needs is described**

1. Real parts from industry are used as reference
2. Common methods for modelling are used
3. Generic and configurable development processes are developed
4. Generic information and data models are defined/developed

STEP 2 mainly 2007:

**The future systems is specified**

1. IT Systems on the market are evaluated.
2. Existing standards are evaluated.
3. Existing technology for system integration is evaluated.
4. Proposal for the future systems is specified:
STEP 3 mainly 2008:
Implementation and information

1. Pilots in "light version Pilots" for Education
2. Advanced Configurable Pilots for application in industry
3. Demonstration and evaluation of installations
4. Seminars and Conferences
Visit ModArt Homepage

http://modart.iip.kth.se