

International Cooperation for Integration of Prepress, Press, and Postpress

Content



Process Changes



Productivity and Ecological Benefits with CIP3



CIP3 History



Current Experiences



What is CIP3 PPF?



New Functionality in CIP3 PPF Version 3.0



Contents of CIP3 PPF



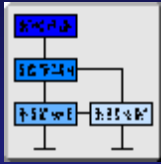
Status



The CIP3 Workflow



Members of CIP3 Group



Process changes



- advent of short run color
- necessary: improvement of productivity by reducing machine make-ready times



integration of prepress, press, and postpress (finishing)



Content



Process Changes



Productivity and Ecological Benefits with CIP3



CIP3 History



Current Experiences



What is CIP3 PPF?



New Functionality in CIP3 PPF Version 3.0



Contents of CIP3 PPF



Status



The CIP3 Workflow



Members of CIP3 Group



CIP3 History

- December 1993 idea
- September 1994 1st internal draft specification
- December 1994 1st functional prototype
- February 1995 foundation of CIP3 group (15 foundation members)
- May 1995 CIP3 presentation at DRUPA'95
version 1.0 of CIP3 PPF
- August 1995 1st CIP3 PPF file created
- August 1996 version 2.0 of CIP3 PPF
- June 1997 version 2.1 of CIP3 PPF
presentation at Imprinta'97
- June 1998 version 3.0 of CIP3 PPF

Content



Process Changes



Productivity and Ecological Benefits with CIP3



CIP3 History



Current Experiences



What is CIP3 PPF?



New Functionality in CIP3 PPF Version 3.0



Contents of CIP3 PPF



Status



The CIP3 Workflow



Members of CIP3 Group



What is CIP3 PPF?

- CIP3 group has specified Print Production Format (PPF)

Overall goal:
Computer-integrated manufacturing (CIM)

- taking information available at prepress to press and postpress stages
- PostScript is currently used as encoding method

Content



Process Changes



Productivity and Ecological Benefits with CIP3



CIP3 History



Current Experiences



What is CIP3 PPF?



New Functionality in CIP3 PPF Version 3.0



Contents of CIP3 PPF



Status



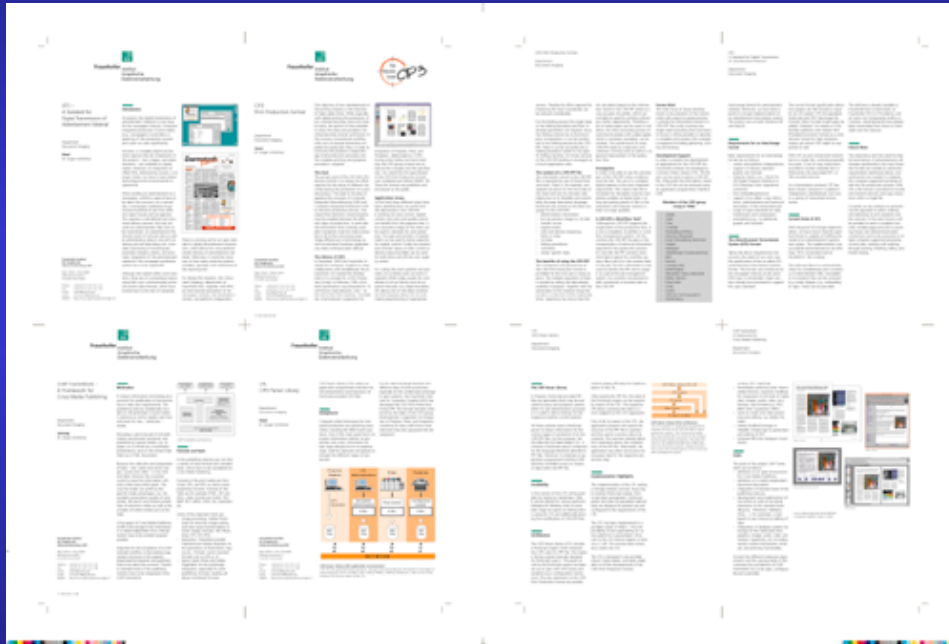
The CIP3 Workflow



Members of CIP3 Group



Contents of CIP3 PPF



- administration data
- preview images for ink key presetting
- transfer curves
- register marks
- color and density measuring information
- cutting and folding information
- private data
- further postpress information for collecting, binding, trimming etc.

Content



Process Changes



Productivity and Ecological Benefits with CIP3



CIP3 History



Current Experiences



What is CIP3 PPF?



New Functionality in CIP3 PPF Version 3.0



Contents of CIP3 PPF



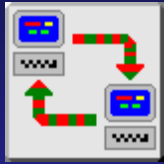
Status



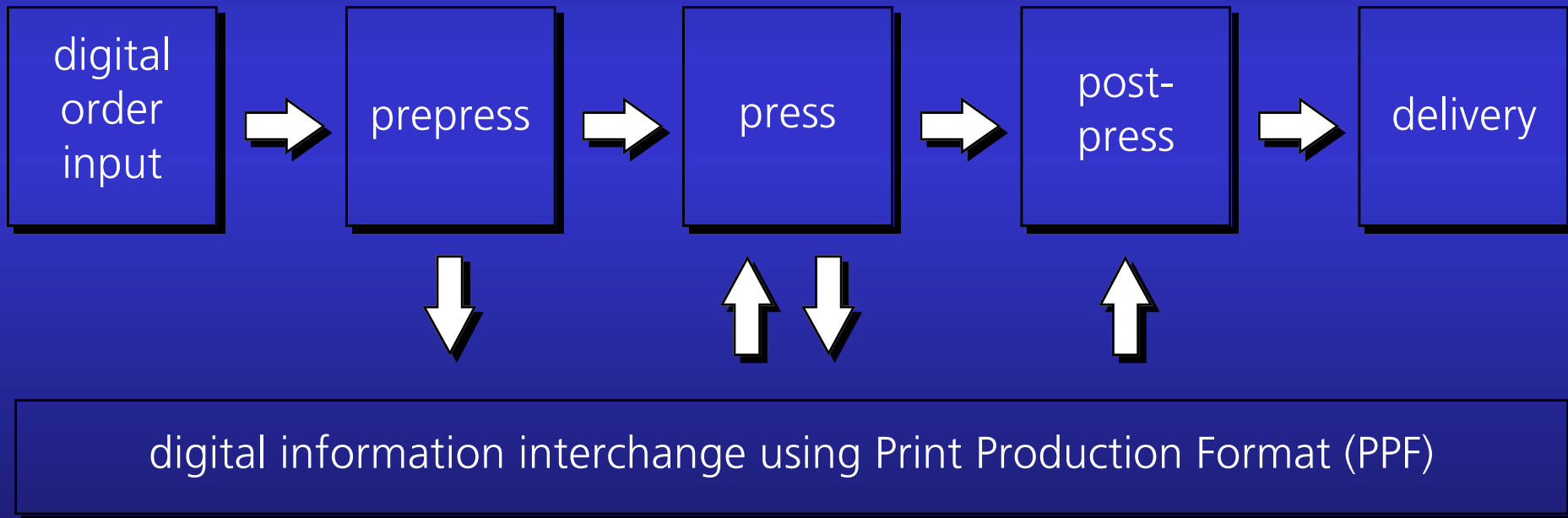
The CIP3 Workflow



Members of CIP3 Group

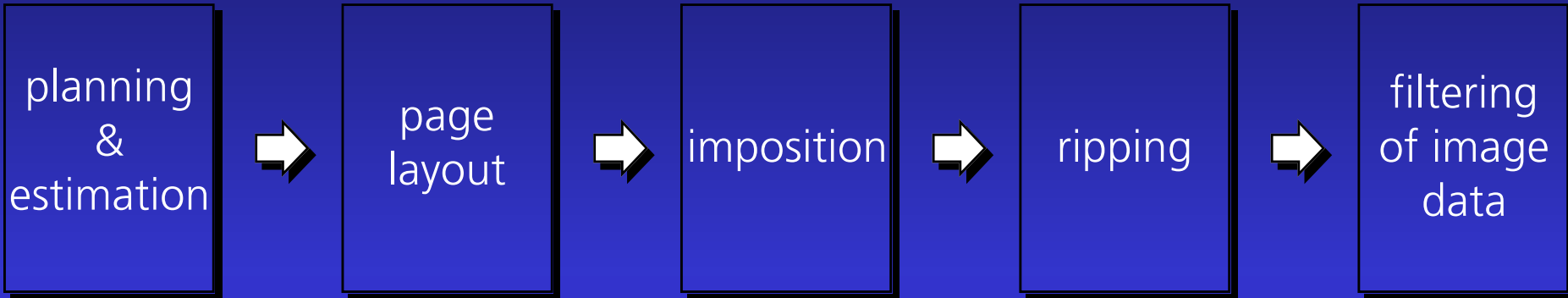


The CIP3 Workflow





Prepress



administration data, press assignment

cutting & folding information, register marks, color/density measuring fields (plate punching information)

preview images



CIP3 Print Production Format file (PPF)



Press

printing plates



preset press



press run

transformation
matrices

preview images,
register marks,
color/density measuring fields,
transformation matrices

private data (e.g.
machine setting
for repeat runs)



CIP3 Print Production Format file (PPF)



Press

printing plates



preset press

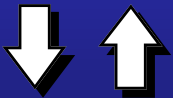


press run

transformation
matrices

preview images,
register marks,
color/density measuring fields,
transformation matrices

private data (e.g.
machine setting
for repeat runs)



CIP3 Print Production Format file (PPF)



Press

printing plates



preset press



press run

transformation
matrices

preview images,
register marks,
color/density measuring fields,
transformation matrices

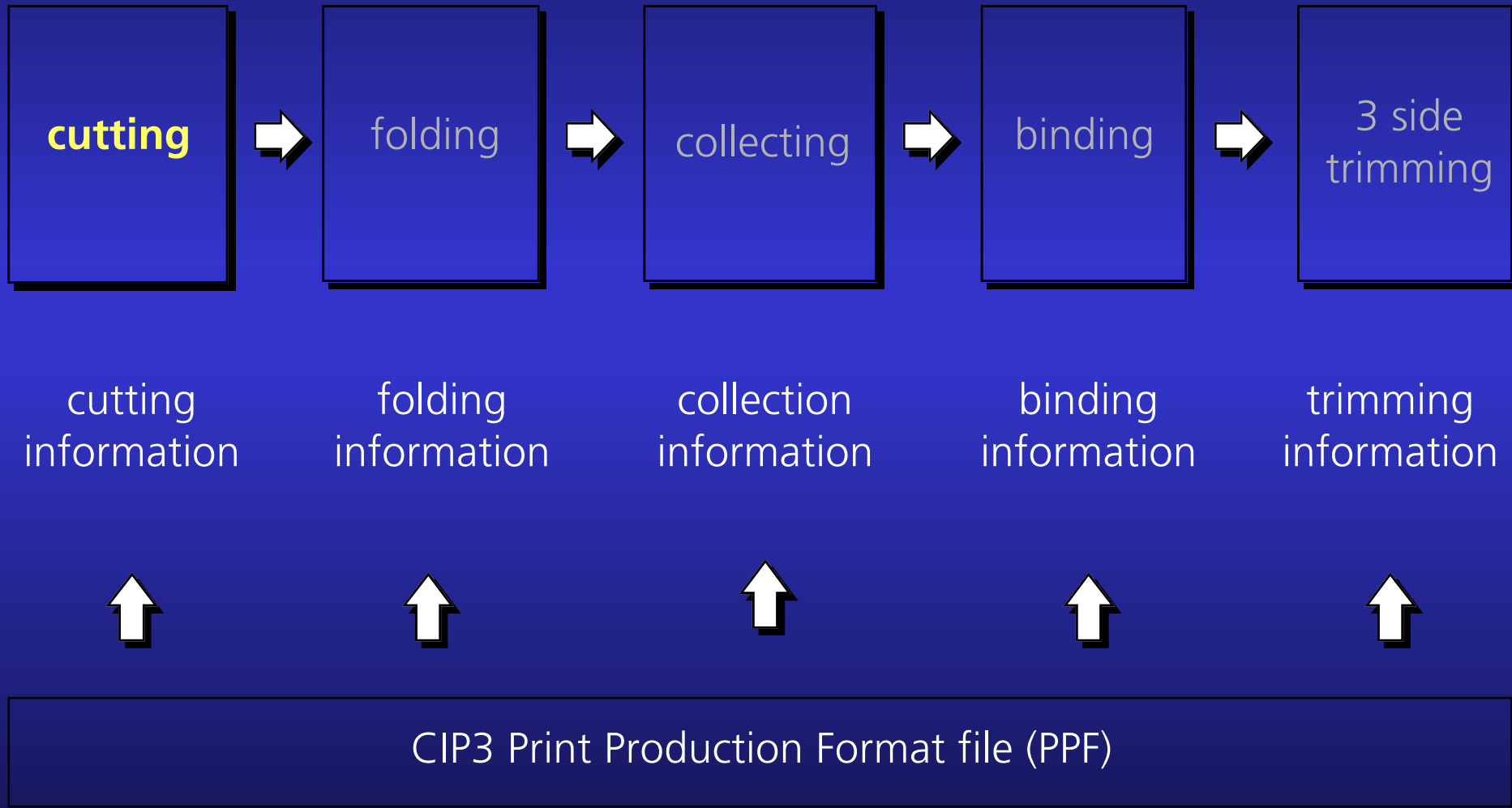
private data (e.g.
machine setting
for repeat runs)



CIP3 Print Production Format file (PPF)

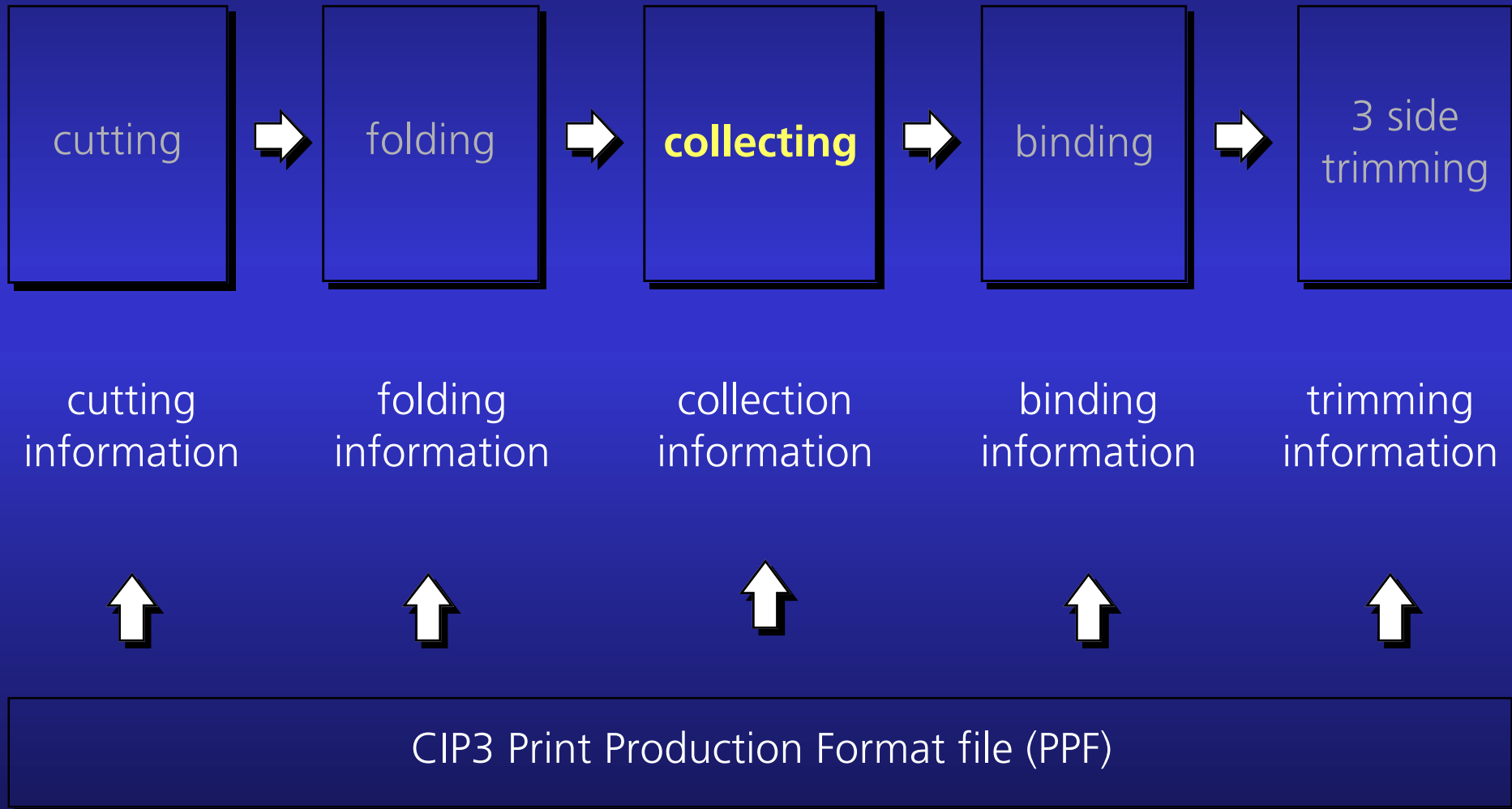


Postpress (finishing)



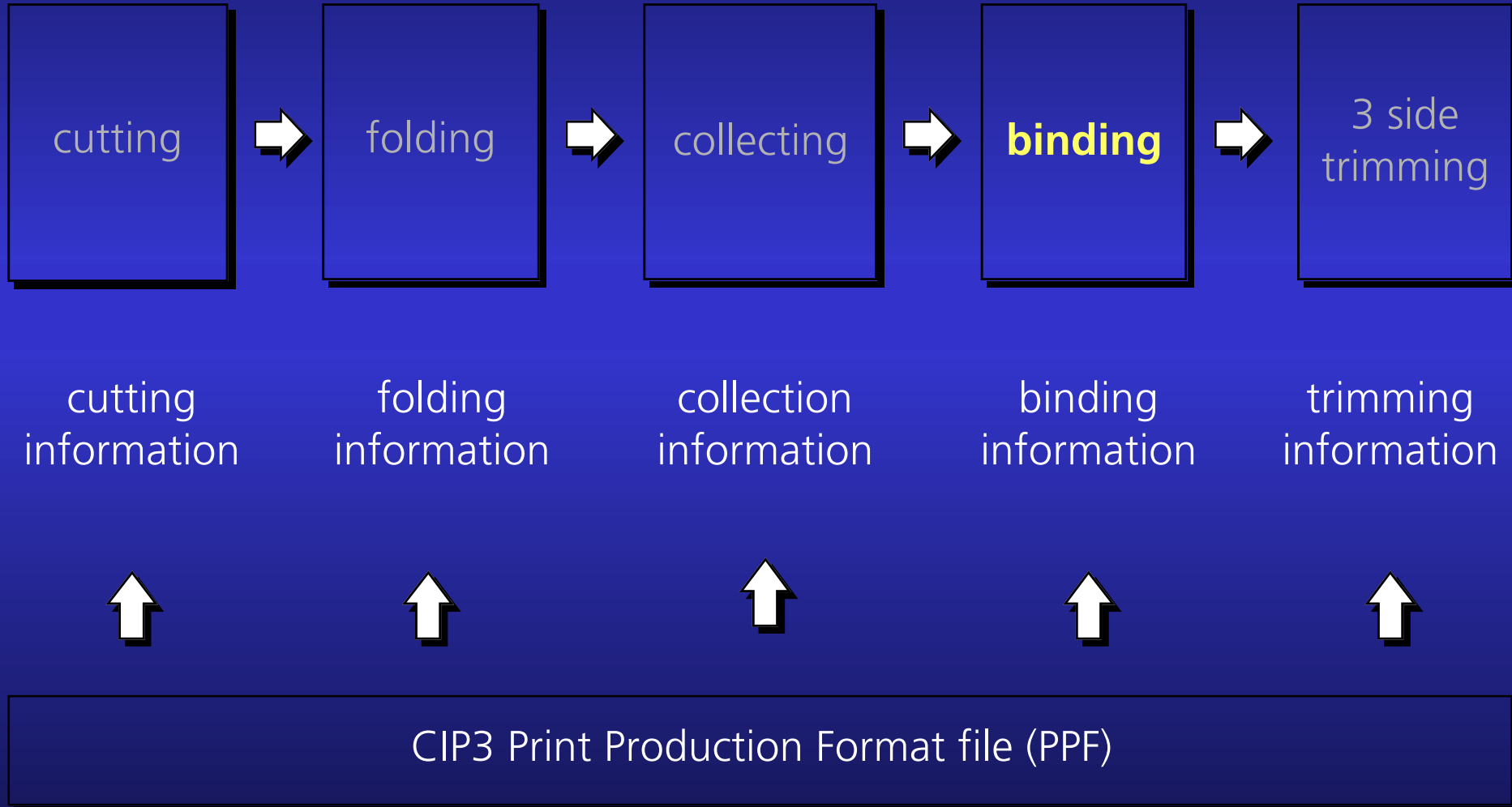


Postpress (finishing)



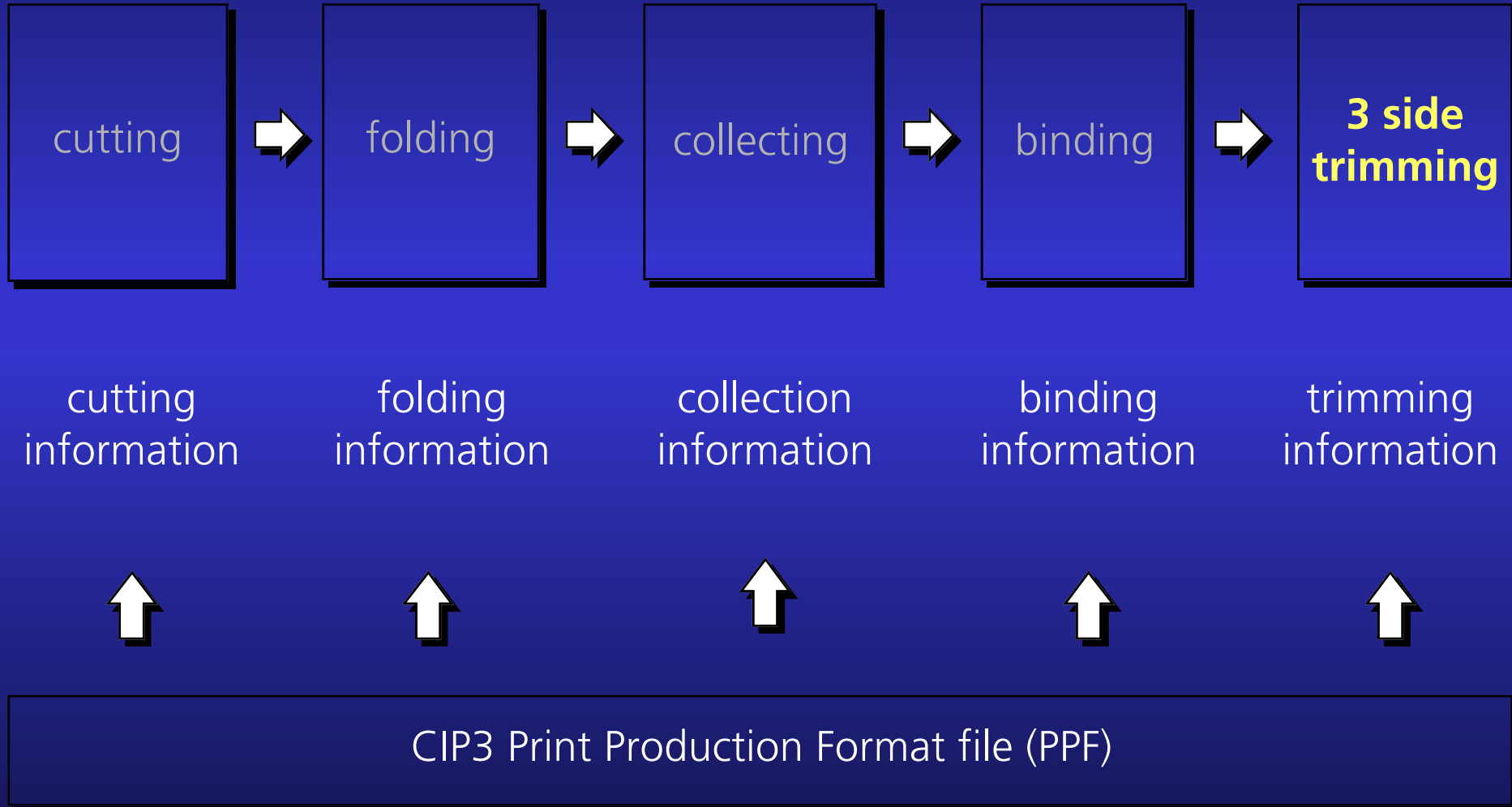


Postpress (finishing)





Postpress (finishing)



Content



Process Changes



Productivity and Ecological Benefits with CIP3



CIP3 History



Current Experiences



What is CIP3 PPF?



New Functionality in CIP3 PPF Version 3.0



Contents of CIP3 PPF



Status



The CIP3 Workflow



Members of CIP3 Group



Improving productivity by:

- reducing number of process steps
- removing manual steps
- integration of prepress, press, and postpress



speed-up and automation of production



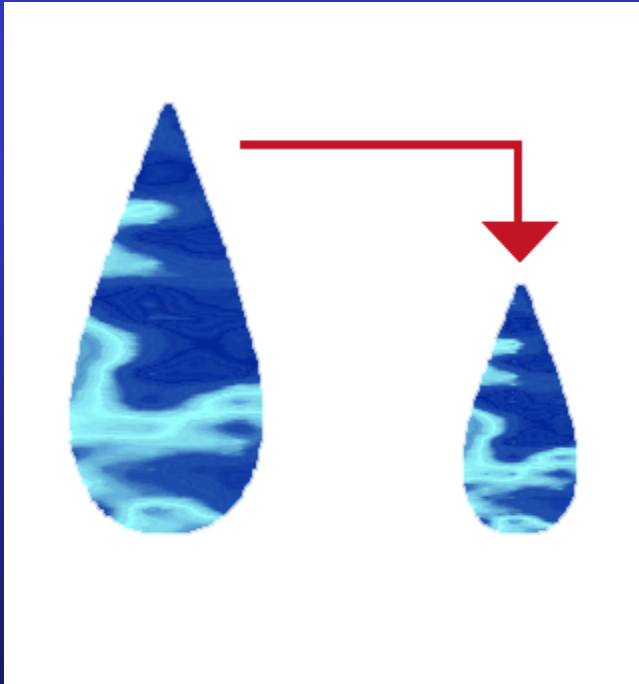
Productivity benefits with CIP3



- only one acquisition of the same data
- shorter production cycles
- better quality control
- streamlined production
- improvement of the productivity and reduction of costs



Ecological benefits with CIP3



- necessary: complete digital prepress
- supporting CTP
 - avoidance of film chemistry
- quicker press preset
- reduction of paper waste
- reduction of ink waste
- reduction of water waste

Content



Process Changes



Productivity and Ecological Benefits with CIP3



CIP3 History



Current Experiences



What is CIP3 PPF?



New Functionality in CIP3 PPF Version 3.0



Contents of CIP3 PPF



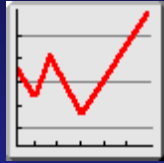
Status



The CIP3 Workflow



Members of CIP3 Group



Current Experiences

- several products using CIP3 PPF for ink key presetting at press
 - high quality of preset values
 - preset values can be used directly for press run
 - saving 3-5 minutes per color
-
- field tests using CIP3 PPF for presetting of cutting machines

Content



Process Changes



Productivity and Ecological Benefits with CIP3



CIP3 History



Current Experiences



What is CIP3 PPF?



New Functionality in CIP3 PPF Version 3.0



Contents of CIP3 PPF



Status



The CIP3 Workflow



Members of CIP3 Group



New Functionality in CIP3 PPF Version 3.0

- International character support (Unicode)
- Definition of a product
 - Collecting & Gathering
 - Thread Sewing & Side Sewing
 - Stitching & Saddle Stitching
 - End Sheet Gluing
 - Adhesive Binding
 - Gluing In
 - Trimming
 - Folding

Content



Process Changes



Productivity and Ecological Benefits with CIP3



CIP3 History



Current Experiences



What is CIP3 PPF?



New Functionality in CIP3 PPF Version 3.0



Contents of CIP3 PPF



Status



The CIP3 Workflow



Members of CIP3 Group



Status

- Products
 - some products are shipping
 - others gain experience in field tests
 - implementation in products
- Development
 - add further postpress information
 - add further web press information
 - develop second encoding (PDF-based)
 - integration into production workflow

Content



Process Changes



Productivity and Ecological Benefits with CIP3



CIP3 History



Current Experiences



What is CIP3 PPF?



New Functionality in CIP3 PPF Version 3.0



Contents of CIP3 PPF



Status



The CIP3 Workflow



Members of CIP3 Group



Members of the CIP3 Group

Adobe
Agfa
Baldwin Technology Company
Barco
Creo
Ekotrading-Inkflow
Eltromat Polygraph
Ewert Ahrensburg Electronic
Fujifilm Electronic Imaging
Gerber
Goebel
Graphics Microsystems
Hagen Systems
Harlequin
Heidelberg
Koenig & Bauer-Albert
Kolbus

Komori
MAN Roland
Mitsubishi Heavy Industries
Müller Martini
Nth Degree Software
Polar-Mohr
RR Donnelley & Sons Company
Ryobi
ScenicSoft
Scitex
Screen
Shinohara Machinery Company
Toshiba Machine Co., Ltd.
Ultimate Technographics
Wohlenberg
Xerox
Yamatoya

Technical Development: Fraunhofer-IGD

More Information on CIP3 Print Production Format

at CIP3 WWW Server:

<http://www.cip3.org>