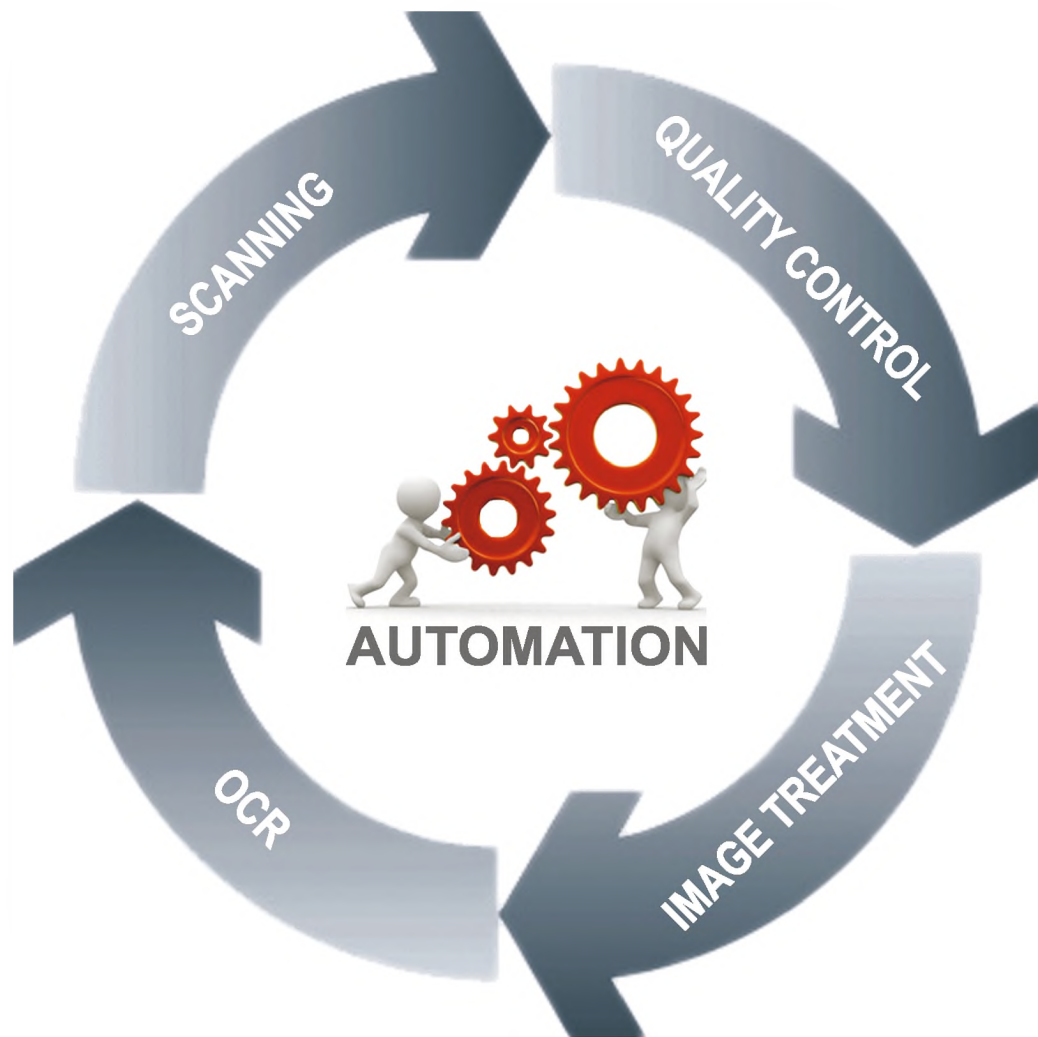


CUSTOMIZED WORKFLOW

**SCANFLOW™**  
*stay on Track*



**THE MOST EFFICIENT SOLUTION  
FOR YOUR MASS DIGITIZATION**

# What is ScanFlow™ Professional?

## ScanFlow™ Professional...

... is an efficient and easy to use workflow & management software. It increases the throughput and output quality of your mass digitization projects.



### Manage your staff



Supervisors

Operators

What shall be done by whom?

### Organize different hardware



Scanner hardware

Which hardware shall be used?

### Plan the book & document logistic



Sheets

Books

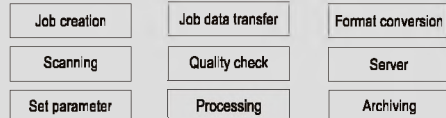
Documents

Index cards

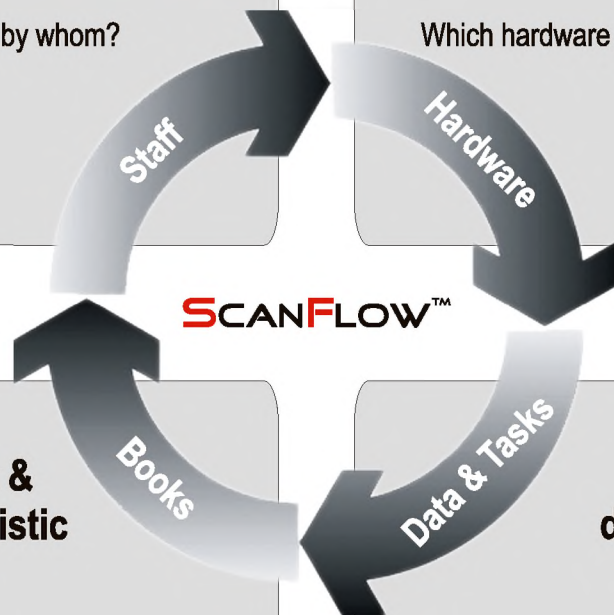
Maps

Which workflow fits to the requirement of the documents?

### Automatize data flow & tasks

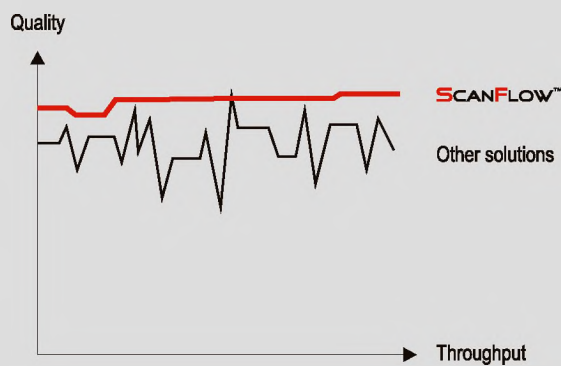


Which task shall be processed next?



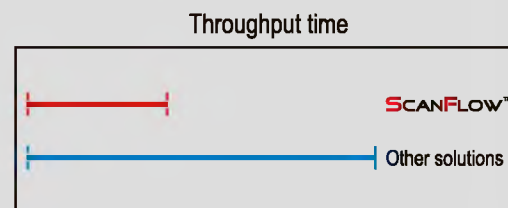
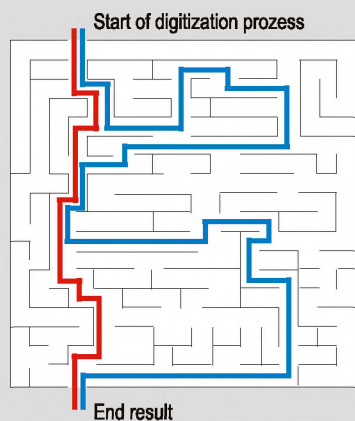
# ScanFlow™ Professional - What is the BENEFIT?

## Output quality



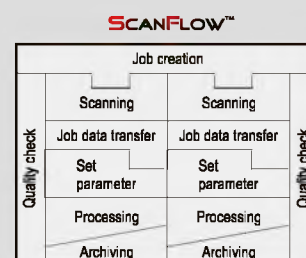
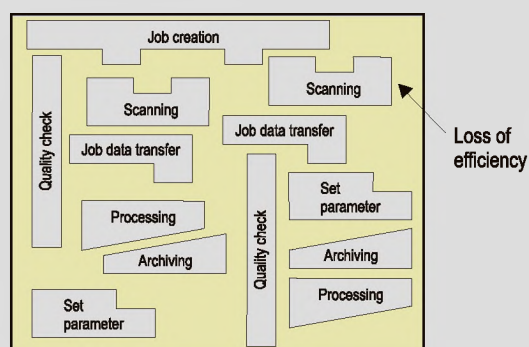
ScanFlow™ ensures a constant & high output quality

## Working efficiency



ScanFlow™ increases the throughput

## Structure efficiency



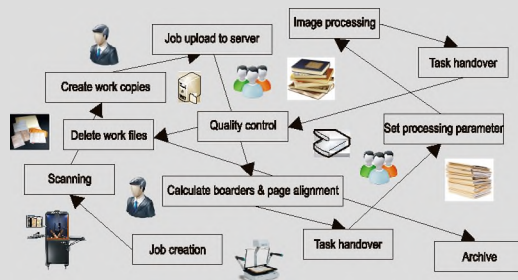
### ADVANTAGES

- No loss of efficiency
- All tasks fit perfectly

ScanFlow™ leads to a clear structure

# What does ScanFlow™ ?

## Struggling without workflow software...



### DISADVANTAGES

- ☹ Manual documentation
- ☹ Manual copying & working
- ☹ Manual quality check
- ☹ High communication overhead
- ☹ Handling errors
- ☹ No project overview

Who is doing WHAT and WHEN?  
... get organized ...

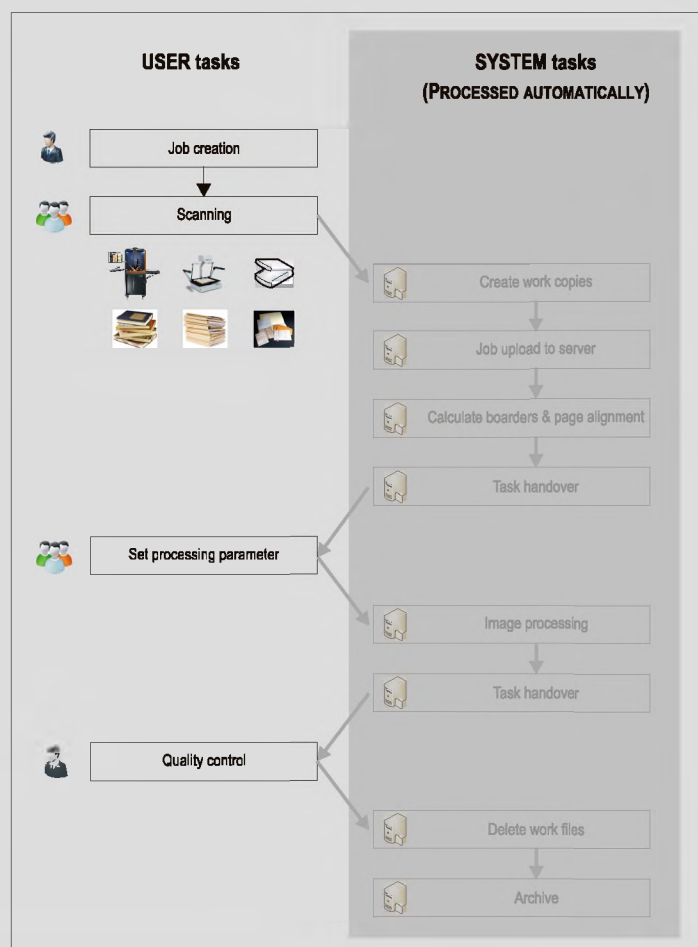


## Structured working with ScanFlow™ Professional



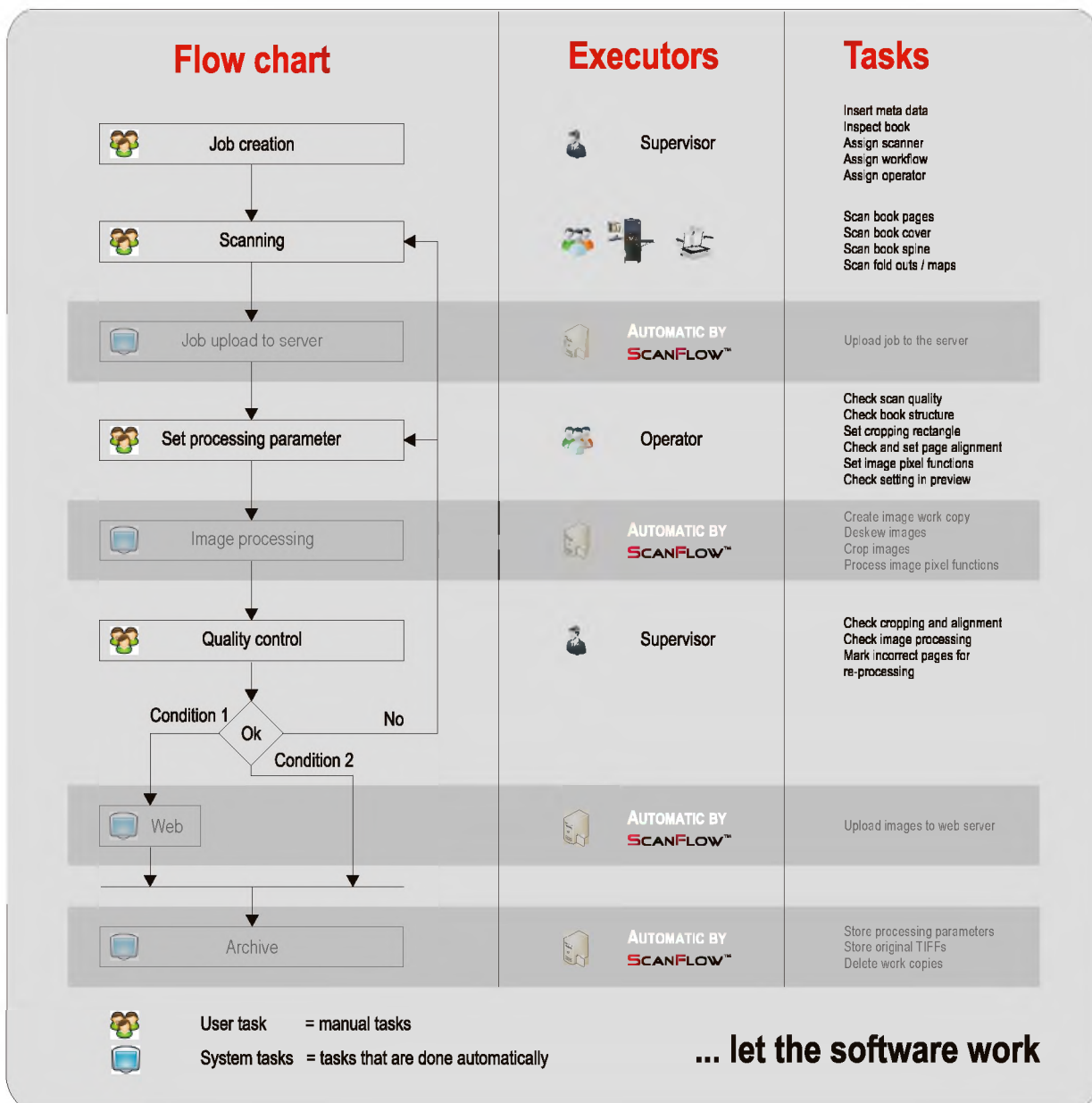
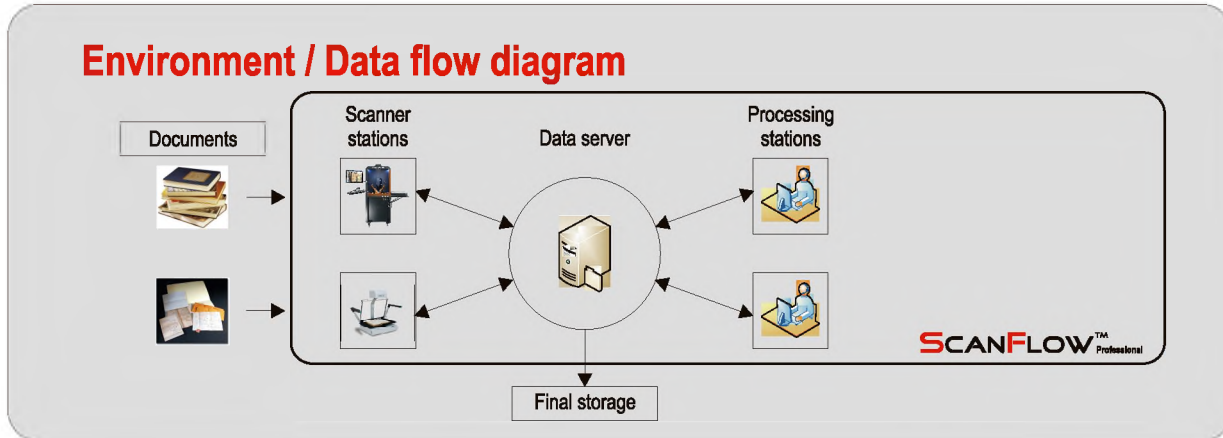
### ADVANTAGES

- ☺ Automatic processing of system tasks
- ☺ Automatic documentation
- ☺ Job tracking (WHICH job is WHERE?)
- ☺ Automatic copying
- ☺ Quality check support



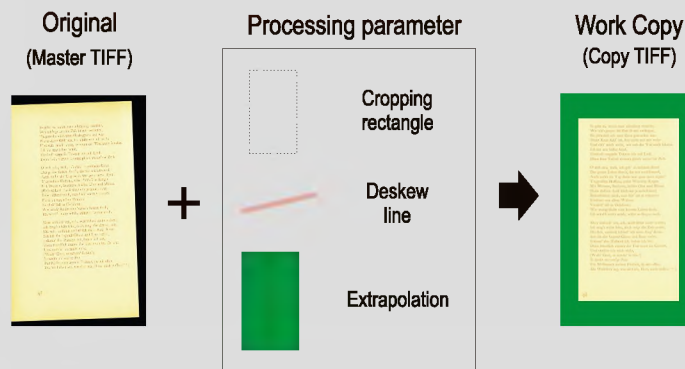
**SCANFLOW™**  
...brings order into chaos...

# Workflow example



# ScanFlow™ - Global functions

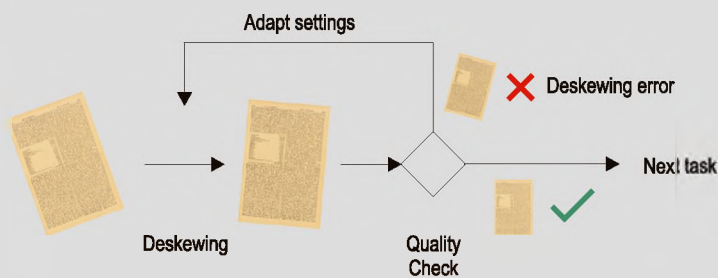
## Parameter controlled processing



### ADVANTAGES

- Easy setting of processing parameters
- Processing parameter can be set
  - a) globally for a whole job and
  - b) individually for single pages
- Master files remain unchanged

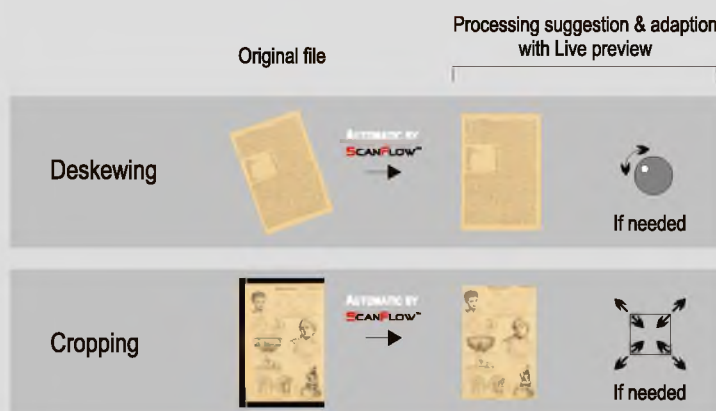
## Undo function (e.g. Deskewing)



### ADVANTAGES

- Go back to any previous task
- Easy correction of settings:
  - a) Correct settings stay unchanged
  - b) Wrong settings can be adapted

## Processing suggestion & Live preview



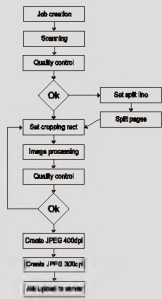
### ADVANTAGES

- Automatic processing suggestions
- Displayed in Live preview
- Exact adjustment easily possible with Live preview
- Available for all processing functions  
(e.g. Deskewing, Cropping, Extrapolation, Brightness & Contrast adaption...)

# ScanFlow™ - Global functions

## Multiple workflows

Workflow 1



Workflow 2



Workflow 3



### ADVANTAGES

- Create and customize multiple workflows
- Use different workflows simultaneously
- Different projects can be processed with the same staff and hardware simultaneously
- Change workflow settings anytime when needed

## Multiple outputs

Final result



TIFF, color, 400 dpi  
JPEG, greyscale, 400 dpi  
PNG, b/w, 300 dpi  
...

Images

PDF  
OCR\*  
XML\*  
Epub\*  
...

Documents

### ADVANTAGES

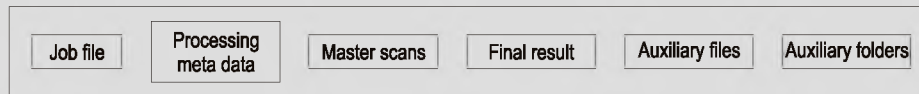
- ScanFlow™ creates multiple file formats
- File formats can be created automatically and simultaneously

\* In combination with OCR

## Job finalization

All finalization tasks (e.g. Transfer to storage, delete auxiliary files) are done by ScanFlow™ automatically.

Job



AUTOMATIC BY  
SCANFLOW™

Final storage



Backup



Archive



Server



# ScanFlow™ - Analysis, Reporting & Tracking\*

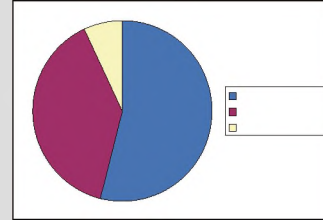
\* Not included in the standard ScanFlow™ package. Customized module optional acquirable on request.

## Analysis, Reporting & Tracking tools

### ADVANTAGES

- Different process overviews
- Easy project progress analysis
- Fast identification of bottlenecks within scanning projects
- Track & log the status quo of each job (e.g. in which workflow stage is each job, etc.)

### PROCESSING TIME



### TRACK & LOG

Job name	pages	Scanning (time)		Image processing time (minutes)	job finished
		start	stop		
11	568	09:53	10:16	15	21.11.2012
12	682	10:18	10:49	18	21.11.2012
15	610	14:34	14:53	11	21.11.2012
17	872	11:37	12:02	13	21.11.2012
18	594	08:58	09:17	10	21.11.2012

# ScanFlow™ - Quality control tools

## Task completeness check

ScanFlow™ reports automatically if every task has been executed and generates status reports of all embedded workflow tasks.

## Quality control recommendation

ScanFlow™ provides recommendations for:

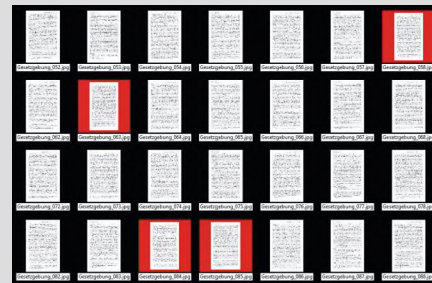
- Which pages might have lower quality?
- Which pages require an additional quality control?

## Quality check

ScanFlow™ supports fast quality checking:

- Pages can be easily marked
- Explanatory notes can be easily added

### FAST QUALITY CHECK



\* Faulty pages are marked red.



# ScanFlow™ - further functions & tools

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## Resource organization tools

### Inter-task message tool

ScanFlow™ enables users to pass notes within the software by using inter-task messages.

### Remote monitoring tool

ScanFlow™ includes a monitoring tool for all processes by remote access via web interface.

### Scheduling function

ScanFlow™ allows to schedule all tasks to guarantee an optimal resource management (e.g. time consuming and computationally intensive tasks can be processed over night).

## Task automation functions

### Automatic execution of external scripts

ScanFlow™ allows to execute external scripts automatically by using a CLI (Command Line Interface).

### Automatic import functions

ScanFlow™ supports automatic import functions.

### Automation of FTP-uploads

ScanFlow™ enables the automation of FTP-uploads.

## CUSTOMER FEEDBACK

### National Library of Sweden

**Treventus:** From when on and for what projects have you used the ScanFlow™ workflow?

**Mr. Magnusson [KB]:** Up to date (2013 jan) we have produced 2500 pdfs of the Swedish Government out of a total of 5600 volumes.

**Treventus:** Where are the advantages of the ScanFlow™ workflow from your point of view?

**Mr. Magnusson [KB]:** Its a powerful and flexible system that is easy and fast to do changes in the production depending on what we produce. [...] It is so easy for any of us to make a new flow or changes in the old one.

**Treventus:** What can be done better, faster with the support of the ScanFlow™ workflow than before?

**Mr. Magnusson [KB]:** I think you are fast and effective!

Roger Magnusson (Image Technician)  
National Library of Sweden / Kungl. Biblioteket  
eMail: roger.magnusson@kb.se  
WEB: www.kb.se/english

### University Library of Gothenburg

**Treventus:** Where are the advantages of the ScanFlow™ workflow from your point of view?

**Mr. Stark [UB.GU]:** First of all we can use different scanning stations regardless of type (robot, camera, flatbed or sheetfed scanners) and still use the same general way of collecting the images from the scanner, do a first quality check and apply workflows. This leads to a consistent way of handling the images and it also speeds up the time it takes to train new operators. Also important point for us is the relative easy way of setting up a new workflow. The high degree of automation in the image processing which includes the possibility to move and copy files to and from different locations on the network is another advantage of ScanFlow™.

**Treventus:** Why did you choose or go for the ScanFlow™ workflow?

**Mr. Stark [UB.GU]:** We could not find any competing software that did it better.

We also have to add that the support given by Treventus is very swift and they have been very cooperative when we have asked for changes or improvements in the software.

**Treventus:** What can be done better, faster with the support of the ScanFlow™ workflow than before?

**Mr. Stark [UB.GU]:** The main difference is the automation, earlier we had to move the files more or less manually between different locations and processes which meant that we could not start a continuous process for several jobs that could run during the night. Almost everything was done during office hours. Now all these parts are done overnight. So we can focus on the image processing. Now you know where your images are located so you don't have files laying around "forgotten" on different workstations. As some negative feedback: New functionality is often added, but the documentation is lagging far behind.

Lennart Stark (IT-developer digital services)  
University of Gothenburg, SWEDEN  
eMail: lennart.stark@ub.gu.se  
WEB: www.ub.gu.se

# CUSTOMER FEEDBACK

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## Bavarian State Library

The Bavarian State Library (BSB) is one of the largest European universal libraries. The library's unique collection profile is characterized by an extremely heterogeneous material [...] of more than 200,000 titles from thousands of years of cultural heritage. As an international research library it offers services to scholars and students worldwide [...] And it allows 24/7-access to information for everybody around the world. It is therefore a primary strategic objective of the library to digitize as soon as possible its unique holdings and to make them accessibly free of charge on the WWW.

The Munich Digitization Center (MDZ) of BSB has built up a huge production line for digitizing the rare books, manuscripts and special collections from the 8<sup>th</sup> up to the 16<sup>th</sup> century.

### Customer Feedback

**Treventus:** What was the activator to look for a suitable workflow software?

**Dr. Brantl [BSB]:** In the Scanning Center there are more than 24 different scanners [...]. It is a real challenge to coordinate the different processes caused by different hardware: this was the activator to look for a special workflow-solution in order manage all scanner devices under one single workflow.

After an implementation phase in 2010 we are running now all scanners with the ScanFlow™-Software of Treventus.

**Treventus:** Why did you choose or go for the ScanFlow™ workflow from Treventus?

**Dr. Brantl [BSB]:** ScanFlow™ allows using a centralized workflow system which is scalable and flexible for nearly all customers needs. As soon as it is implemented it is an easy to use system.

**Treventus:** Which problems or challenges does the ScanFlow™ workflow solve?

**Dr. Brantl [BSB]:** ScanFlow™ is ideal for managing jobs on different systems. You can start e.g. with scanning at the robot and you can always switch to another system e.g. a normal book scanner. The software integrates the whole hardware within our digitization centre.

**Treventus:** What were your expectations with using the ScanFlow™ workflow?

**Dr. Brantl [BSB]:** We expected time and cost reduction through automatization of the workflow and we have the experience that there are now fewer errors within the production cycle of a book through the functionality of ScanFlow™. By this we do save time and costs during the digitizing process.


**Treventus:** What can be done better or faster within your digitizing projects by using the ScanFlow™ than before?

**Dr. Brantl [BSB]:** The entire digitizing process runs smoother. Every step from "books check in" at the scanning center, the production, quality control, up to the checking of the final data transfer in the long-term digital archive at the Leibniz Super Computing Centre (which means 445 Terabyte at 31.12.2012).

Mr. Dr. Markus Brantl (Head of "Munich Digitization Center", MDZ)  
Bavarian State Library, GERMANY  
eMail: [brantl@bsb-muenchen.de](mailto:brantl@bsb-muenchen.de)  
WEB: [www.bsb-muenchen.de](http://www.bsb-muenchen.de)

# PRODUCT FAMILY


**SCANROBOT<sup>®</sup>**  
*turn the Page*



**AUTOMATIC BOOK SCANNER**  
TO SPEED UP YOUR PRODUCTIVITY

TREVENTUS

**SCANLIGHT<sup>™</sup>**  
*keep it Simple*

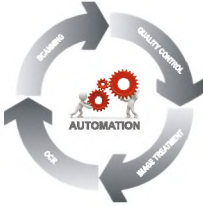


**IMAGE TREATMENT**

**THE MOST POWERFUL SOFTWARE**  
FOR YOUR IMAGE TREATMENT

TREVENTUS

**SCANFLOW<sup>™</sup>**  
*stay on Track*



**CUSTOMIZED WORKFLOW**

**THE MOST EFFICIENT SOLUTION**  
FOR YOUR MASS DIGITIZATION

TREVENTUS

**NAINUWA<sup>™</sup>**  
*open your Mind*



**DIGITAL LIBRARY**

**THE WORLD'S MOST INNOVATIVE**  
DIGITAL LIBRARY SYSTEM

TREVENTUS

**OCRSOLUTIONS<sup>™</sup>**  
*highlight your Content*



**TEXT RECOGNITION**

**FULLY AUTOMATED TEXT RECOGNITION**  
FOR YOUR SCANFLOW<sup>™</sup> & NAINUWA<sup>™</sup>

TREVENTUS

**CONSULTING<sup>™</sup>**  
*support at any Stage*



**PROJECT DEVELOPMENT**

**YOUR SOLUTION PARTNER FOR**  
MASS DIGITIZATION PROJECTS

TREVENTUS

JANUARY 2018  
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## Awards

Winner of the European ICT Grand Prize  
Innovation prize of the Theodor Kery foundation  
1<sup>st</sup> place in Genius Innovation Award

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