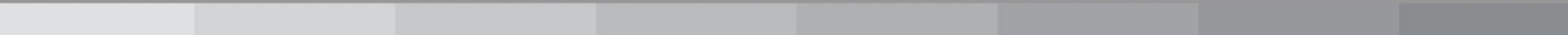




QIDENUS TECHNOLOGIES  
QIDENUS TECHNOLOGIES





- ① founded 2005 as spin off:  
University of Economics Vienna
- ① active in the field of automated page turning & scanning technology
- ① won several awards for its unique technology
- ① Qidenus Technologies registered world-wide patents  
for its page turning technology: the intelligent bionic finger
- ① [www.roboticbookscan.com](http://www.roboticbookscan.com)

# Product Overview



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# Robotic Book Scan Division

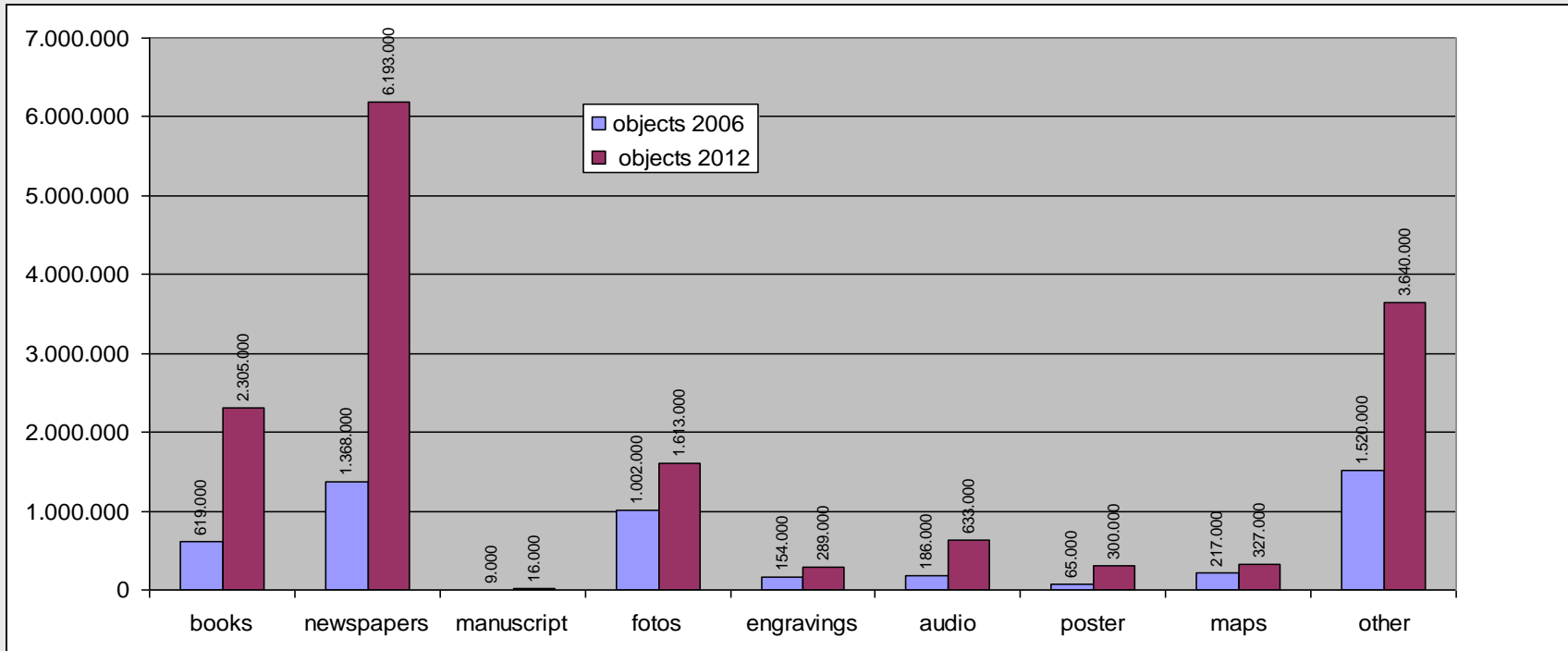
# Market Development



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scanned books 2006: ~600,000 // 2012: ~2,300,000 // ~ FACTOR 3.8!

scanned newspapers 2006: ~1,300,000 // 2012: ~6,200,000 -> ~ FACTOR 4.8!

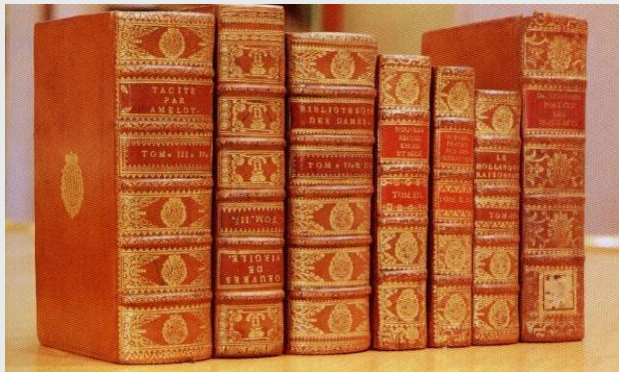


# Demand for efficient Digitisation



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- ⌚ time pressure: chemical processes destroy books
- ⌚ conservation & availability of knowledge
- ⌚ capture the content for upcoming generations
- ⌚ long term storage vs. availability



→ *new / flexible / cost efficient*  
*mass digitisation solutions make it possible*

- 2006 → 3 different Prototypes

- 2008 → Model 1

Qidenus Robotic Book Scanner - RBS A3



- 2010 → Model 2

Qidenus Robotic Book Scanner - RBS TT



- 2012 → Model 3

Qidenus Robotic Book Scanner - RBS 3.0

# RBS 3.0 full



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- Patented turning mechanism → The Bionic Finger
- Unique light sensor tech → operating DPC
- Gentle & automated 80 degree book cradle
- High-end LED lighting for constant illumination
- Curvature free scanning due to glassplate
- Dual camera system: integrated full format DSLR cams
- SW Suite for post-production & workflow-control

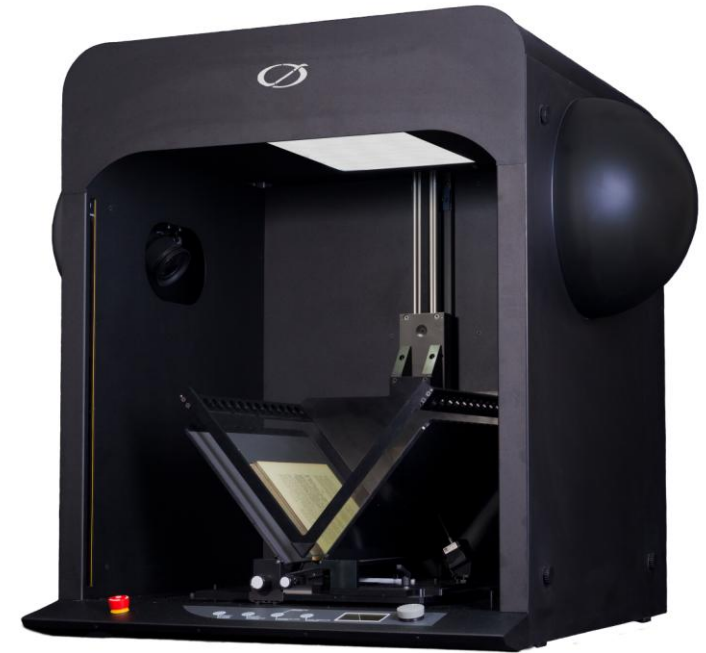


# RBS 3.0 semi



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- Best Manual Book Scanner available
- High speed manual system for quality mass production
- Automatised capturing, self centering 80° book cradle
- Unique operating mode controlled per light grid system
- Curvature-free scanning with or without glassplate
- High-end LED lighting for constant illumination
- Compatible to all future digital camera developments
- 4 different models: A3+ / A2 / A2+ / A1
- All with optical 300dpi or optical 400dpi





- covers, kartonages, foldouts, loose pages
- sticky mode / books closing spontaneously
- 80 degrees / fold readability!
- quality-control & db-control DURING scanning
- page sizes / page thickness / book thickness
- comprehensive SW & WF Suite integrated

## comprehensive SW Suite

- image processing
- quality control
- format conversion
- workflow guidance
- OCR



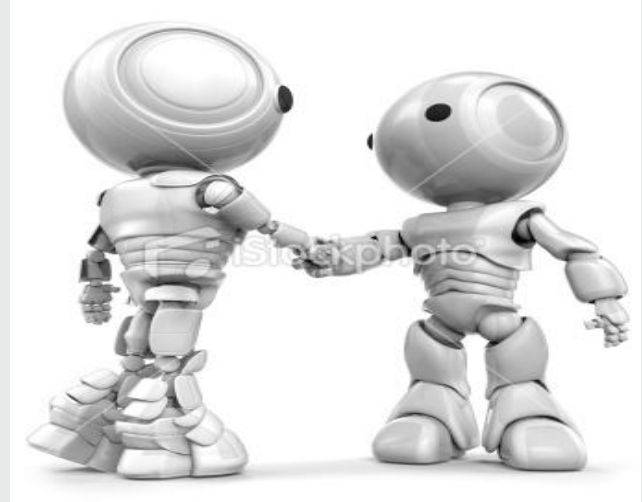
→ **automatic vs. manual post processing (scripts)**

→ **flexible integration into industrial workflows**

# providing a solution



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- full service & support
- selected partners all over the world
- customisation of systems & services
- advisory & consulting from beginning to end
- 24/7 industrial machine → minimum maintenance



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Case:

National Library of Norway



- Professional Digitization Center
- operation daily from 8:00 until 18:00
- Many different scanners in production
- 5 Qidenus Robotic Book Scanners since December 2009
- Increase from 5.000 pages/day to 45.000 pages/day



## Robotic Bookscanners need a consistent workflow

- Preparation and selection of books
- Logistics of books
- Training of operators
- Postprocessing – setting quality criteria and standards

# Important Steps To Start



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- ① defining requirements
- ① deciding for right & suiting equipment
- ① installation & workflowintegration
- ① training! (operator training, IT training, PM training)
- ① consulting & service throughout the whole project



# Insights



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# Reference Customers




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- Library of Alexandria
- National Authority for Heritage Abu Dhabi
- Royal Library Belgium
- National Library Poland
- Romanian Government Library
- County Library Piedmont Italy
- County Library Debrecen Hungary
- German State Library Heidelberg
- Alos Documents Switzerland

## → winner of several awards

- Leonardo - Best Automization Technology
- Genius - Best Innovation

## **technology**

 high speed, high image resolution, gentle secure turning,  
real double page control, clear mechanical system (no congestion by dirt),  
2in1, WF- & SW- Management!

## **reliability / low maintenance**

## **cost advantages**



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THANKS FOR YOUR ATTENTION!

QUESTIONS ?