



# DIGITIZATION

IN THE

# SLOVAK NATIONAL LIBRARY

PAST PRESENT FUTURE







## PAST: PRE-PILOT





## 2000s

early thoughts about digitization of SNL's legal deposits

## 2008 - 2009

- first installations
- preparing of Digitization Complex in Vrútky
  - preparation of documents for digitization/digitization/coservation after digitization
- test operations

## 2009 - 2012

- market and solutions research scanning devices, image-processing tools
- acquisitions of solutions
- systems and processes set up Infrastructure preparing, Work-efficiency testing







# PAST: PILOT

#### DIGITAL LIBRARY DIGITAL & ARHIVE PROJECT



# 03/2012

- Launch of National Project Digital Library and Digital Archive (,Project')
  - Quantitative criteria of the Project:
    - 800 000 articles from scientific journals and almanacs
    - 350 000 issues of periodical prints
    - 100 000 volumes of monographs / book prints
    - 10 000 units of special documents postcards, posters, invitations, etc.

# 04/2012 - 02/2013

- Origin of digitization in Digitizing Centre in Vrútky
  - Scanning 2x DL 3003's and 2x Treventuses
  - Processing simple image editing in ScanTailor
  - Backup of digitization outputs in tape library







# PAST: PRODUCTION

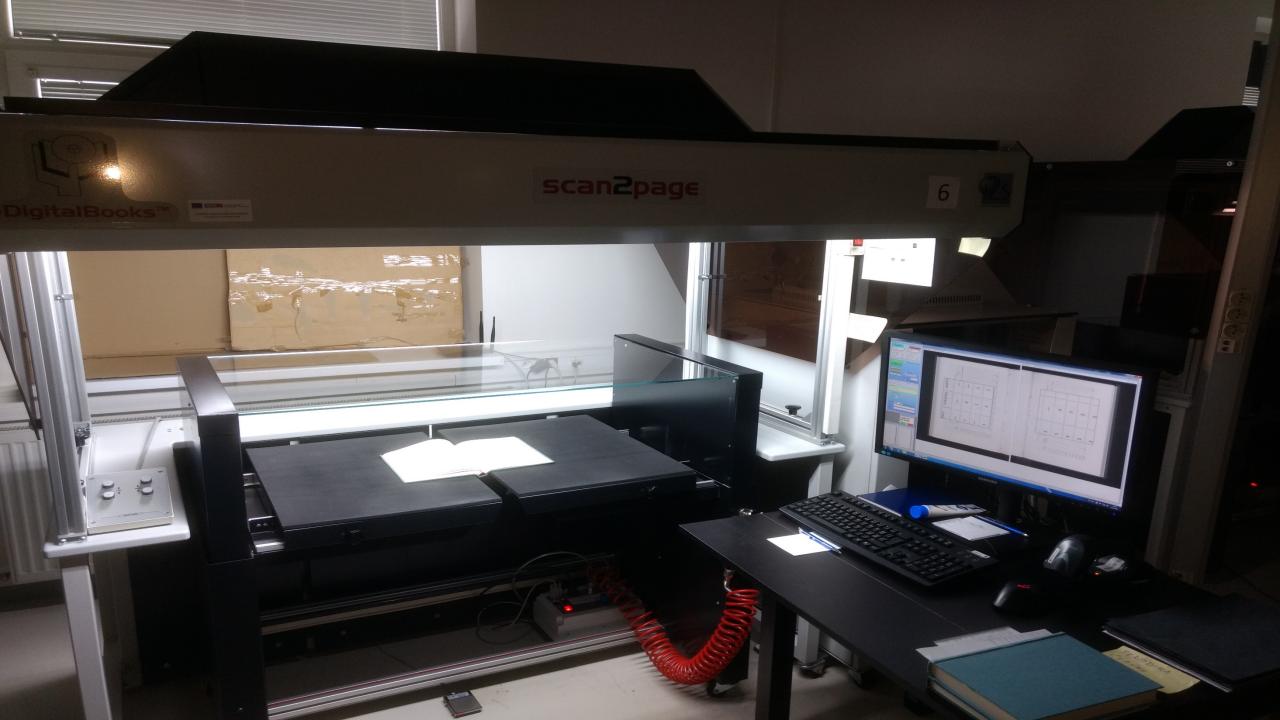
I. STAGE: - BEFORE DOCWORKS



# 02/2013 - 04/2014

- implementation of new work-shift (from 40 e-yees to 80 e-yees)
  - full production mode from 6am to 10pm
- digitization of articles external supplier
- new definition of metadata standards for digitized outputs PSPs
- new scanners:
  - 5 CopiBooks (early 2013)
  - 2 S2Ps (early 2013)
  - 6 DLmini's (late 2013)









# PAST: PRODUCTION

II. STAGE: - IMPLEMENTATION OF DOCWORKS



# 04/2014 - 11/2014

- <u>implementation automated digitizing WorkFlow DocWorks (CCS) with following systems:</u>
  - ItemTracking Tracking system that supervises transport and logistic of document batches
  - System covering all digitizing processes:
    - Scanning/Image processing/Content processing/Rework and Post-processing actions
- customization of profiles according to the SNL's needs
  - generating of SNL's digital outputs (PSPs) in accordance with accepted standard
    - UC, MC, TXT, ALTO, AMDSec, info.xml, MD5, METS.xml



# PAST: PRODUCTION

II. STAGE: - MEETING QUANTITATIVE INDICATORS



# 11-12/2014

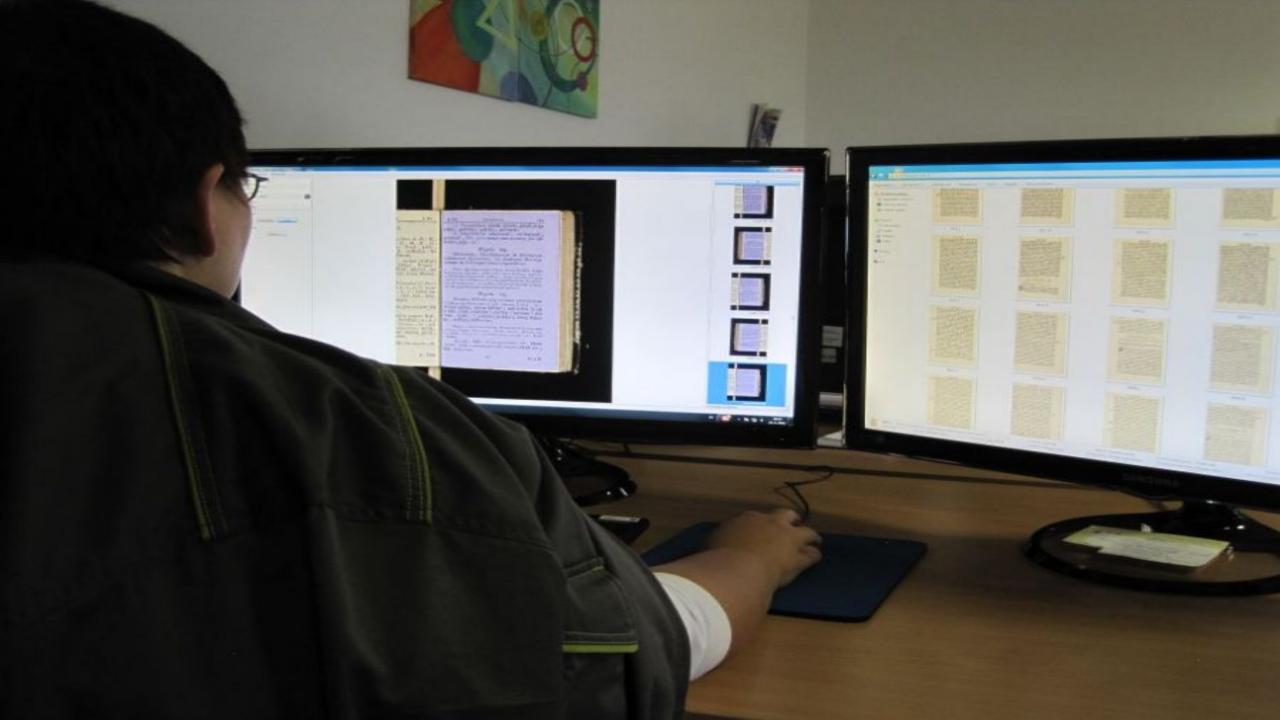
generation of first valid digital outputs of digitization (PSPs)

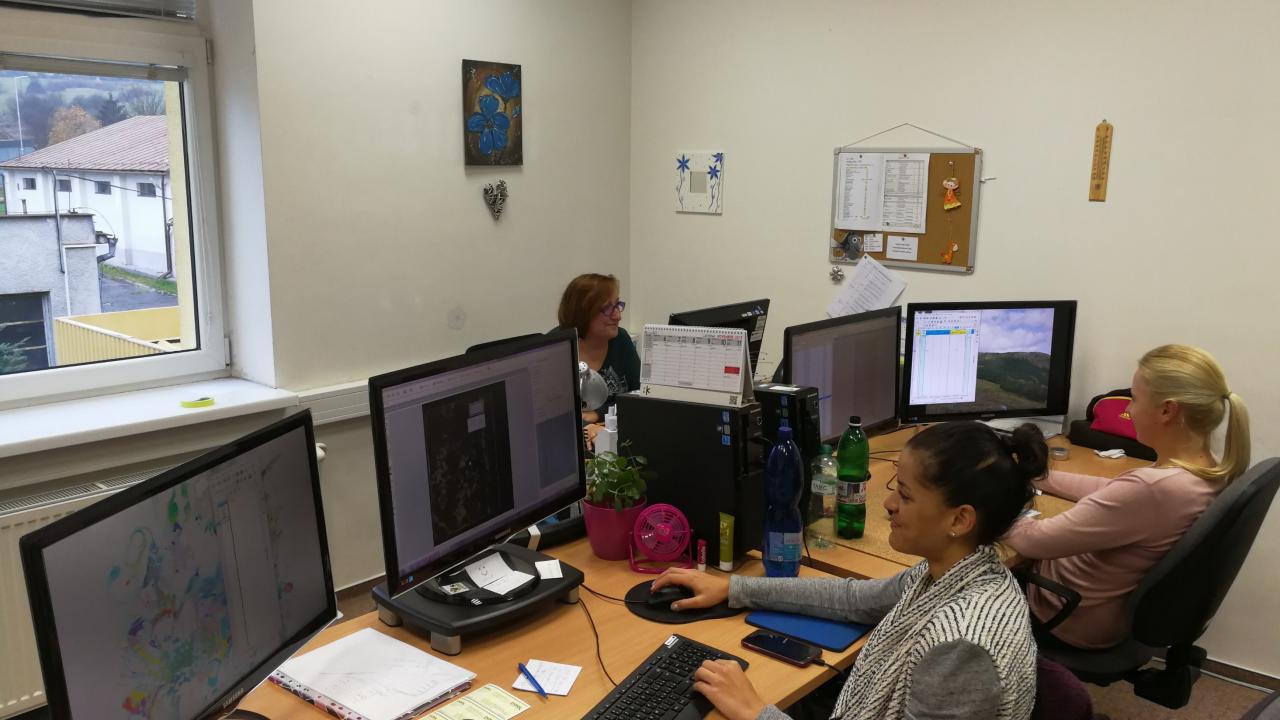
# 03/2015 - 08/2015

finalization of Project

# 09/2015

- meeting the quantitative criteria of the 'Project'
- initiation of SNL's 'local' Digital Library











## **PRESENT**



**SUSTAINABILITY** 

# Sustainability phase of the Project

- Started 01/2016 and will be finished 12/2020
- Quantitative criteria digitization of 5 mil. of pages / each year 25 mil. together

### **Year 2017**

- Currently digitized objects:
  - legal deposits of actual year and Historical prints from Literary Museum and Literary Archive
- Development of automated post-processing solution
  - it covers:
    - data release from the DocWorks systems,
    - distribution of derivatives to the contracted partners
    - rework of the already processed documents







## **FUTURE**



#### IMPROVEMENTS OF USER EXPERIENCE

## Future customization of the DocWorks

- General Improvements
  - new processing profiles for different types of documents e.g. newspapers, articles...
- Specific Improvements
  - new Metadata Management for multi-issued periodical prints, articles, ...
  - upgrade of logical structure map adding of links to ALTO blocks
  - generation of downloadable derivatives PDF, partly also EPUB
  - backup of notes describing physical status of document

# Reprocessing of "old production"

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# BEACONS FOR LIBRARY

# I. WHAT IS IT?



# WHAT IS A BLE BEACON

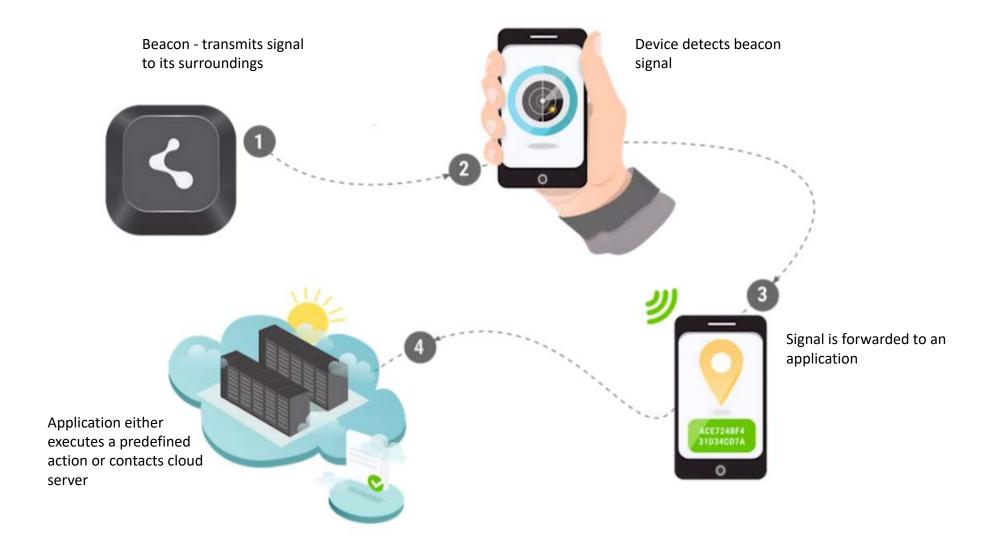


- ► Bluetooth Low Energy device
- data packet transmitter
- ▶ iBeacon & Eddystone format
- ➤ 2.5GHz frequency (Wifi frequency)
- ▶ about 50 meters range
- ▶ up to 5 years battery life



# **HOW**DOES IT WORK

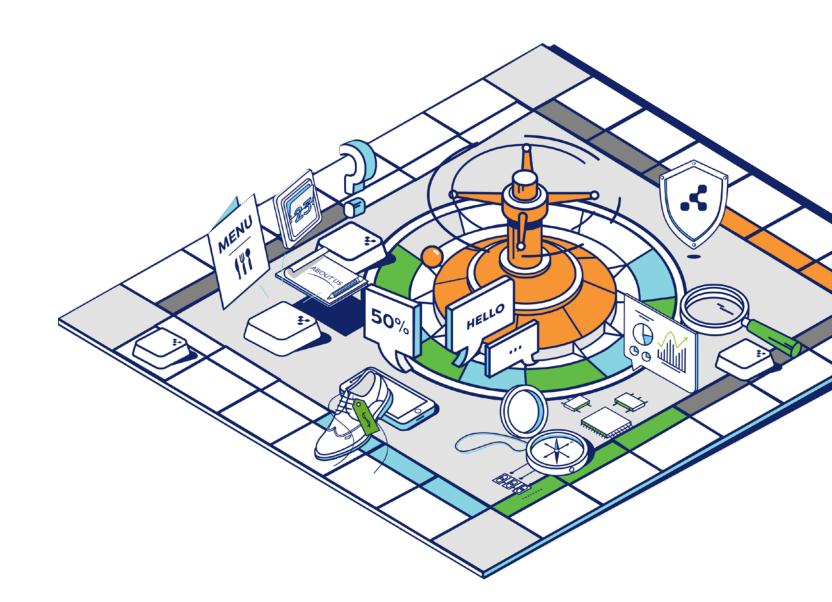




# WHERE CAN BE USED



- Infomation
- Navigation
- Monitoring
- Analytics
- Security







- ► Attact nearby visitors to your premises
- ► Share information with your visitors
- Grab and focus attention
- ▶ Targeted personalized marketing
- Push content based on user location and behavior



# II. WHAT IS THEREFOR LIBRARIES?



## **PRESENT**

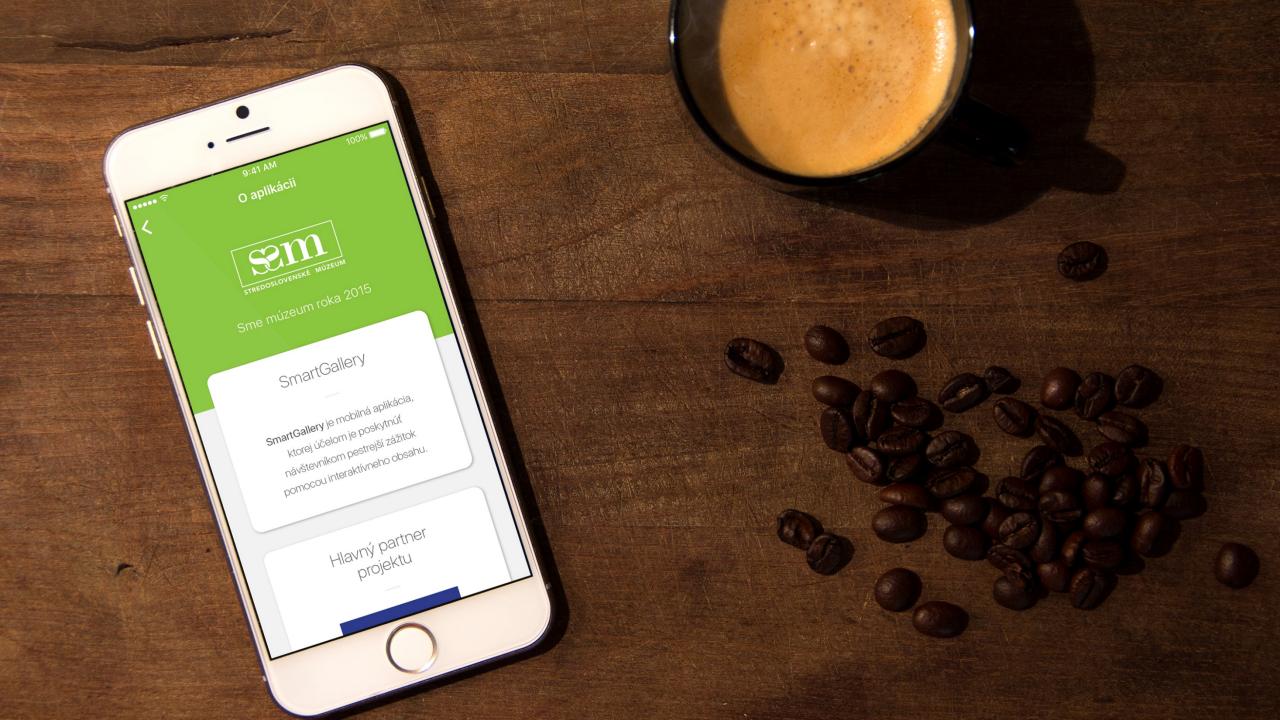
# Tempest IT makes sense

#### **SUSTAINABILITY**

- Libraries and museums are using beacons to alert patrons with notices about services and exhibits when they are in physical proximity of the devices.
- Beacon 1 "Ask a Library" Can`t find information you need? Ask a library!
   Visit <u>www.spytajtesakniznice.sk</u>.
- Beacon 2 "Literature retrieval" service allow researchers to find specific papers. Ask online at: www.snk.sk/literature retrieval.
- Beacon 3 "Scanners for free" Ask about free scanners at Services department desk
- Beacon 4 "Quiet zone" Please be mindful, that person next to you is studying

# III. SMART GALLERY

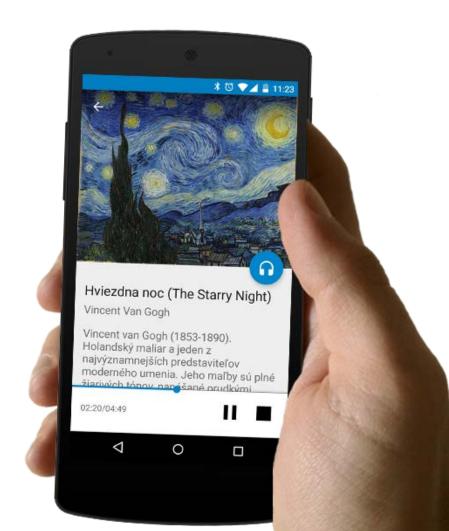




#### **APPLICATION**



- Audio guide
- Detial digital content
- ➤ Simple phone automation silent mode in gallery premises and normal mode when outside
- ► Time-tracking record arrival and departure times of visitors

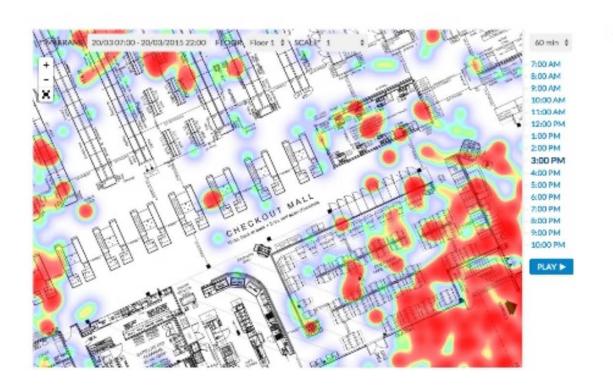


**APPLICATION** 

# Tempest

IT makes sense

#### **HEAT MAP**



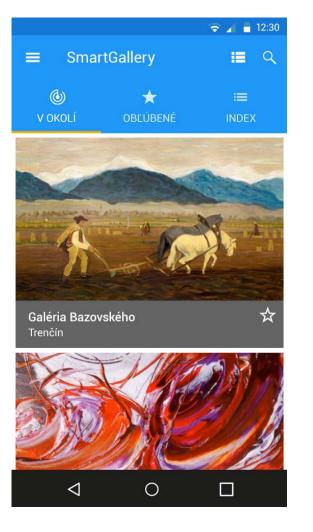


08:00	59	63	58	70	58	42	
09:00	96	86	129	139	139	109	
10:00	147	153	284	180	260	248	
11:00	210	262	199	301	312	277	
12:00	242	193	290	232	308	363	178
13:00	205	182	209	536	366	464	204
14:00	265	323	386	428	445	601	257
15:00	206	296	353	309	494	576	253
16:00	401	301	440	453	579	430	249
17:00	643	432	380	412	500	272	260
18:00	364	427	384	432	176		
19:00	260	347	291	303	335		
20:00	136	459	122	176	214		

#### **APPLICATION**



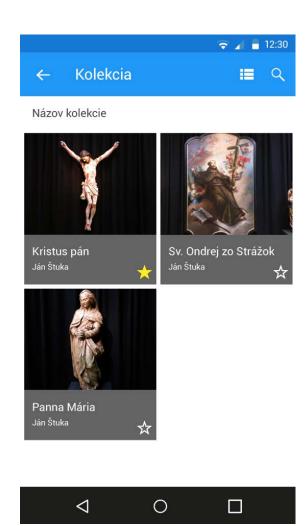




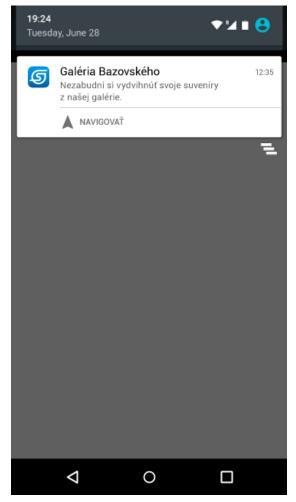


#### **APPLICATION**









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