

# Discover the Hybrid Experience

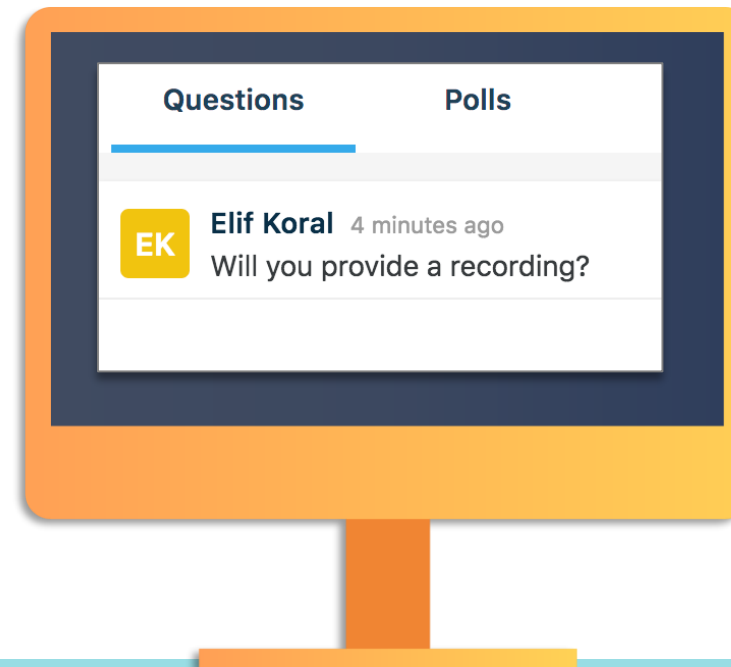
## IRIS Expert in Data Capture

**Henning Krause**  
EMEA Partner Director  
IRIS AG

**David O'Sheridan**  
Head of Business Development Northern Europe  
IRIS SA

# WELCOME

Ask your Questions  
Answer our Polls



[irisdatacapture.com/webinars/](https://irisdatacapture.com/webinars/)



# IRIS: a Strong Group built on Knowledge and Expertise

Founded in  
**1987**



**9**  
Countries  
(HQ in Belgium)



**100M€**  
revenue



**615**  
employees

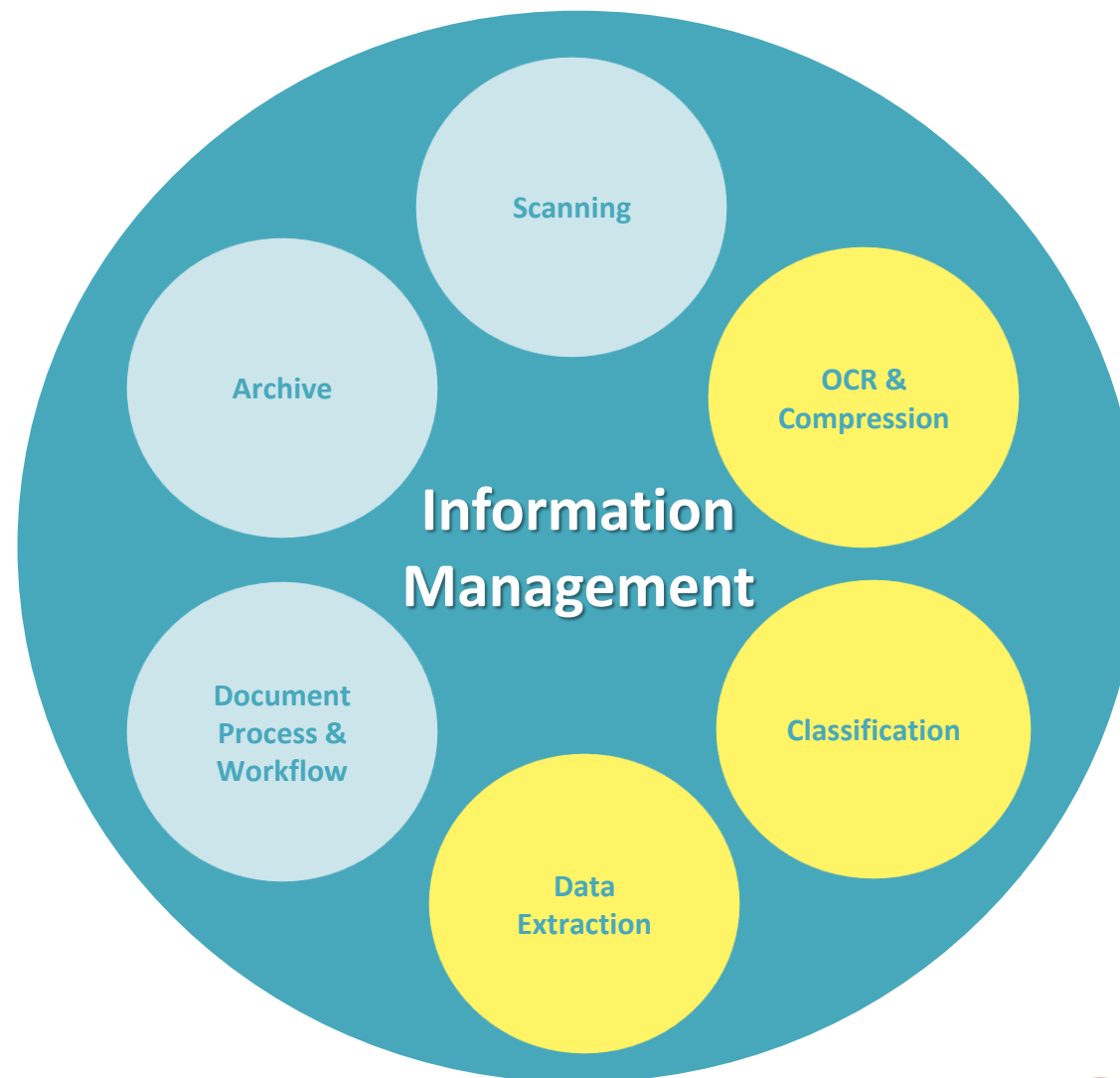


# IRIS Intellectual Property

## IRIS IP

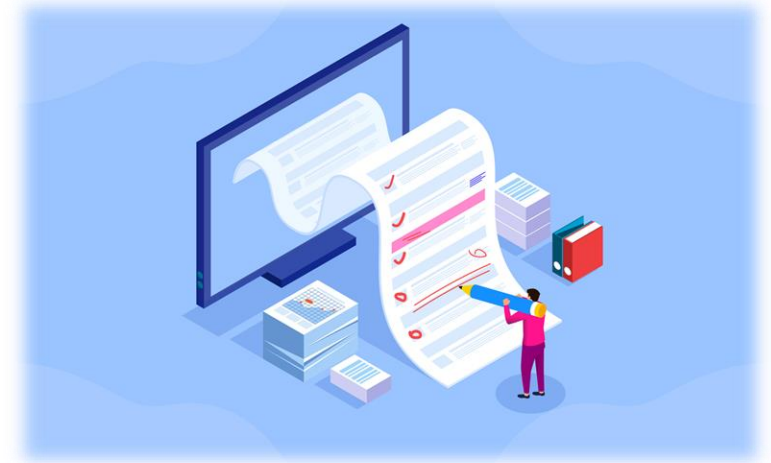
All these technologies are developed and maintained by IRIS **We own 100% of the intellectual property**

● We're amongst the **3 market leaders** in each of these technologies



# IRIS – Findings from the Past - Solutions for the Future

1. 30 years of experience in OCR
2. 25 years experience in Forms processing



But it turned out, that forms are sometimes not only fixed forms

# IRIS – Findings from the Past - Solutions for the Future

## Fully structured Content

**BSS STUDENT ID CARD FORM**  
(MUST BE FILLEDUP IN CAPITAL LETTERS)

STUDENT NAME :

COURSE NAME :

COURSE CODE :

DATE OF BIRTH :   
(As per Tenth Mark sheet)

BLOOD GROUP :

STUDENT RESIDENTIAL ADDRESS :

PINCODE :

INSTITUTE NAME :

INSTITUTE DISTRICT :

INSTITUTE PINCODE :

INSTITUTE STATE :

INSTITUTE APPROVAL CODE :

**IMPORTANT NOTE :** ALL THE ABOVE DETAILS MUST BE FILLEDUP IN CAPITAL LETTERS PROPERLY. INCOMPLETE AND MISTAKE ID CARD FORMS WILL NOT BE PROCESSED AND THE SAME, NOT NOTIFIED TO YOU.

PASTE YOUR PASSPORT SIZE PHOTO HERE  
(DO NOT STAPLE)

A reasonable candidate for a template based methods

## Semi structured Content

**BSS STUDENT ID CARD FORM**  
(MUST BE FILLEDUP IN CAPITAL LETTERS)

STUDENT NAME :

COURSE NAME :

COURSE CODE :

DATE OF BIRTH :   
(As per Tenth Mark sheet)

BLOOD GROUP :

STUDENT RESIDENTIAL ADDRESS :

PINCODE :

INSTITUTE NAME :

INSTITUTE DISTRICT :

INSTITUTE PINCODE :

INSTITUTE STATE :

INSTITUTE APPROVAL CODE :

**IMPORTANT NOTE :** ALL THE ABOVE DETAILS MUST BE FILLEDUP IN CAPITAL LETTERS PROPERLY. INCOMPLETE AND MISTAKE ID CARD FORMS WILL NOT BE PROCESSED AND THE SAME, NOT NOTIFIED TO YOU.

PASTE YOUR PASSPORT SIZE PHOTO HERE  
(DO NOT STAPLE)

Product ID	Description	Quantity	Unit Price	Line Total
P1003	Motorola V3 Razr Black	10	420.00	4,200.00
P1000	Motorola V3 Razr Black	12	199.99	2,399.88
P1001	Non-taxable item	5	200.00	1,000.00
P1006	Motorola V3 Razr Black	3	285.52	817.66

PARAGRAPH THREE: Request a personal interview and indicate your flexibility as to the time and place. Repeat your phone number in the letter and offer assistance to help in a speedy response. For example, state that you will be in the city where the company is located on a certain date and would like to set up an interview. Alternatively, state that you will call on a certain date to set up an interview. End the letter by thanking the employer for taking time to consider your credentials.

Sincerely yours,

John Smith

A reasonable candidate for intelligent freetext based methods

## Unstructured Content

**PLACEHOLDER LOGO**

June 1, 2013

123 Broadway  
City, State 12345  
Phone: (000) 111-1111  
Email: john@smith.com

Mrs. Jane Smith  
Recruitment Officer  
The Corporation  
123 Pleasant Lane  
City, State 12345

Dear Mrs. Smith,

PARAGRAPH ONE: State the reason for the letter, name the position or type of work you are applying for and identify the source from which you learned of the opening (i.e. career development center, newspaper, employment service, personal contact).

PARAGRAPH TWO: Indicate why you are interested in the position, the company, its products, services - above all, stress what you can do for the employer. If you are a recent graduate, explain how your academic background makes you a qualified candidate for the position. If you have practical work experience, point out specific achievements or unique qualifications. Try not to repeat the same information the reader will find in the resume. Refer the reader to the enclosed resume or application which summarizes your qualifications, training, and experiences. The purpose of this section is to strengthen your resume by providing details which bring your experiences to life.

PARAGRAPH THREE: Request a personal interview and indicate your flexibility as to the time and place. Repeat your phone number in the letter and offer assistance to help in a speedy response. For example, state that you will be in the city where the company is located on a certain date and would like to set up an interview. Alternatively, state that you will call on a certain date to set up an interview. End the letter by thanking the employer for taking time to consider your credentials.

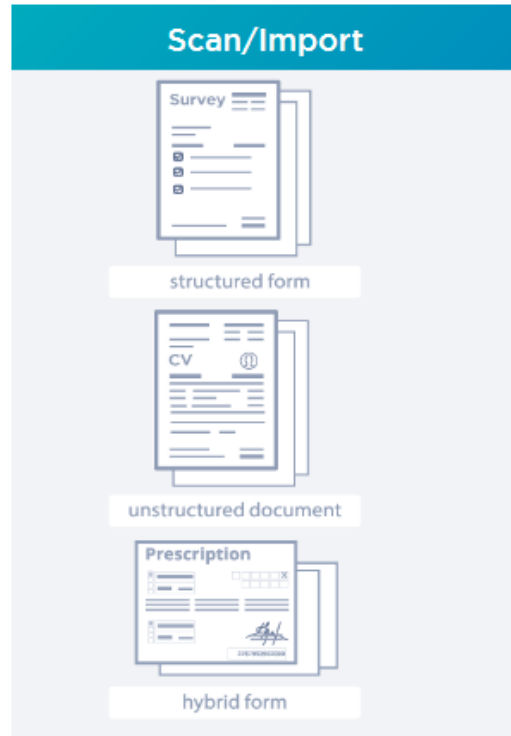
Sincerely yours,

John Smith

A MUST candidate for intelligent freetext based methods

# What does Hybrid Form mean?

Step 1



The solution can process structured forms, unstructured documents and a combination of both: hybrid forms.

Step 2



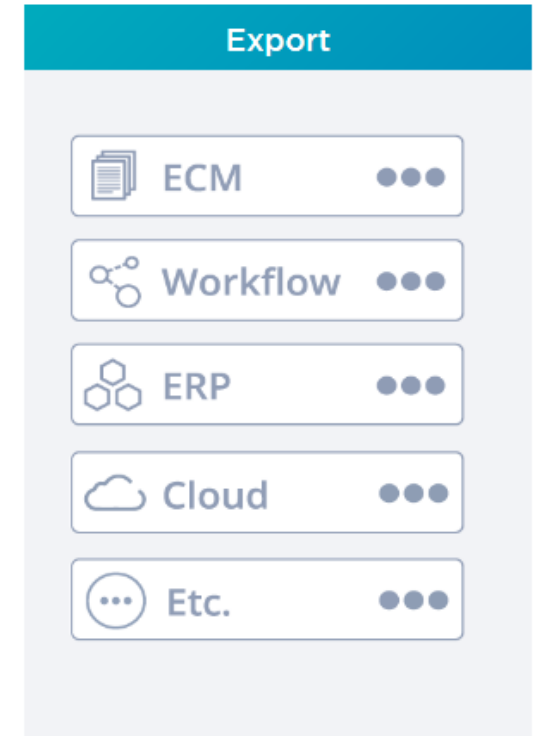
Index capture is based on form and free-form IRIS-made extraction algorithms.

Step 3



Data is double-checked using an extensive set of rules.

Step 4



Images & data are automatically routed to the system of your choice (ECM, DMS, ERP, Cloud ...).

# Document Quality Assessment

Usage of clear instructions whenever possible

**USE BLOCK CAPITALS to detail all information**

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>

—————→ Valid

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>

—————→ Invalid



# Document Quality Assessment

## Usage of Anchor Points

Form Type A



**IT Course Evaluation**

Firstname: \_\_\_\_\_ Lastname: \_\_\_\_\_

Birthdate (DD-MM-YYYY): \_\_\_\_\_ Social Security Number: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Mobile number (include country code): \_\_\_\_\_

Gender: ☐ Male ☐ Female

Education (check all that apply): ☐ Bachelor's degree in IT ☐ Master's degree in IT ☐ Microsoft Certified Programmer ☐ Self-educated

Language (check all that apply): ☐ English ☐ French ☐ Spanish ☐ German

Questions (check the answer that applies most to your case: 0= "Do not agree" up to 5= "Totally agree", 3= does not apply)

1	The training fulfilled my expectations	0	1	2	3	4	5
2	The trainer was very knowledgeable	0	1	2	3	4	5
3	The information presented was new to me	0	1	2	3	4	5
4	I understood everything that was explained	0	1	2	3	4	5
5	The accommodations were adequate	0	1	2	3	4	5

Comments: \_\_\_\_\_

Brochureform 3.0.0



Form Type B



**Evaluation**

Firstname: \_\_\_\_\_ Lastname: \_\_\_\_\_

Birthdate (DD-MM-YYYY): \_\_\_\_\_ Social Security Number: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Mobile number (include country code): \_\_\_\_\_

Gender: ☐ Male ☐ Female

Education (check all that apply): ☐ Bachelor's degree in IT ☐ Master's degree in IT ☐ Microsoft Certified Programmer ☐ Self-educated

Language (check all that apply): ☐ English ☐ French ☐ Spanish ☐ German

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5	The accommodations were adequate	0	1	2	3	4	5

Comments: \_\_\_\_\_

# Document Quality Assessment

## Usage of Anchor Points

Form Type B

A clear, high-contrast scan of a form titled "Evaluation". The form contains various fields for personal information, including name, address, and contact details. It also includes checkboxes for gender, education level, and language proficiency. The form is well-aligned and easy to read.

Form Type B

A clear, high-contrast scan of a form titled "Evaluation". The form contains various fields for personal information, including name, address, and contact details. It also includes checkboxes for gender, education level, and language proficiency. The form is well-aligned and easy to read.

Form Type B

A scan of a form titled "Evaluation" that is tilted and rotated. A yellow curved arrow indicates the rotation. The form contains various fields for personal information, including name, address, and contact details. It also includes checkboxes for gender, education level, and language proficiency. The form is tilted and rotated, making it difficult to read.

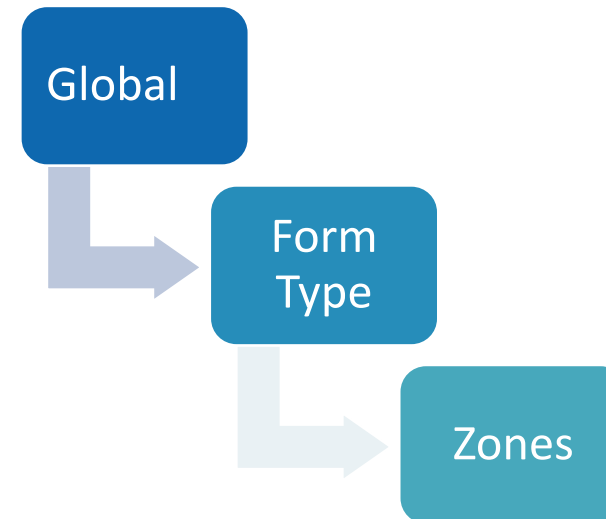


# Key Features

## 1. Image processing

- Automatic Orientation
- Deskewing
- Despeckling
- Colour Dropout
- Horizontal and/or Vertical Lines Removal
- Background Removal

Applicable on 3 different levels:



# Key Features

## 2. Classification

- Anchor Points
- Fingerprint

## 3. Free-Form Extraction

- Barcodes: any formats & any direction
- Dates: any formats
- Amounts: any formats
- Decimals: any formats
- String: via dedicated search strategies (i.e. RegEx, DB Look ups or Key->Value search)
- Table Extraction: Table Finder

## 4. Template Extraction

- ICR: handwritten fields (Multi-Engines available -> Voter)
- OMR: checkboxes



# How and Why do we secure the extracted values

## 1. HOW?

- Restrict the characters set to read (numbers? Alphabetic ?)
- Uppercase chars
- Lowercase chars
- Challenges against conditions (format? Validation and Business rules? DB look up?)

## 2. WHY?

- Security → 100% accuracy before submitting the output results
- Avoid False-Positives (DAVID ≠ DAV1D)

# Realtime Demo



# Q & A



# Thank you!

Questions?  
More Information?

June 17th @ 2pm GMT (4pm CET; 10am EST)

Selling IRISXtract™ “as a Service”

Speaker(s): **Bart Ballegeer**

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