

What AI can do for your Business

Automate repetitive, manual work that implies **qualified cognitive skills**

Classification and encoding of **text documents'** semantic facts (office documents, medical reports, e-mails, invoices, job applications, research results, industry-specific translation, etc.)

Visual interpretation of **images and videos** (event detection, diagnosis of medical conditions, quality analysis in construction and manufacturing, etc.)

Detect new correlations in internal and external data collections

Interdependencies in **customer behavior**

External correlations with **public data** (weather, stock exchange, global events, etc.)

Make more sustainable **predictions on larger volumes of data and in real-time**

Customer lifetime value, basket analysis and recommendations, traffic routing, fraud detection, plagiarism prevention, resource assignment optimization, etc.



 **swiss made software**



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Balzano Informatik AG – Your AI Project

1.

Customer selects **Base Solution** according to business needs

 **SCANDOKS**
AI PROCESSING YOUR DOCUMENTS

 **SCANDIAGS**
AI INTERPRETING CLINICAL IMAGES

 **SCANPREDICT**
AI PREDICTING QUALITY AND BUSINESS RESULTS

 **SCANVIS**
AI SEEING PEOPLE, OBJECTS AND EVENTS

2.

Balzano conducts **Requirements Engineering and Data Analysis** at customer's site

Purpose: Decision on the feasibility of the solution's customer-specific implementation with the customer's existing or future data.

Example: Document routing in ScanDoks depends on the semantic content and the typical structure of the documents the customer needs to process. Based on industry standards and existing AI, the customer's specific knowledge will be added to the AI's training during a project's implementation. The current step confirms if the customer's data allows for such training.

This is a low-cost, fixed price engagement. Costs will be deducted from project price if a project is implemented afterwards.

3.

Customer and Balzano agree on **AI Training Scope and Cost**

Purpose: Based on the findings of step 2, a project scope and price will be proposed by Balzano. If the customer agrees, an AI training contract will be closed between both parties.

Besides the AI knowledge part, an integration scenario will be decided in this step (e.g. integrate with customer's existing ERP/CRM/PP solution, or integrate via Office 365 or as an independent Web App).

AI training contracts typically have a fixed price, from which the cost of step 2 will be deducted.

4.

Balzano conducts **Custom AI Training (Transfer Learning)**

Purpose: The existing product core is extended by the customer's problem-specific knowledge. The resulting AI is owned by the customer afterwards and typically continues learning and improving in quality as it is being used.



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AI Processing your Documents:



ScanDoks extracts routing and classification information from your documents:

Automatically store incoming documents in the right location, forward to the best recipient, assign the correct classification

Industries:

- Industry-agnostic

ScanDoks finds contextually related documents in collections:

Find documents with similar semantic meaning from an example

Example use cases for semantic compare:

- Find similar legal cases
- Identify contracts on similar topics
- Match job postings with CVs
- Detect plagiarism
- Aggregate equivalent proposals

ScanDoks encodes and structures information in your unstructured documents:

Automatically generated codes and match documents with ontologies

Example use cases for encoding:

- Encode clinical document for billing to health payers (ICD, CHOP, CPT4, others)
- Find research documents that point to specific genetic and other medical markers
- Identify missing common or case-specific clauses in contracts

AI through Deep Learning:

- Custom-trained for your company's specific vocabularies and structures
- Maintenance-free and self-learning

Integration scenarios:

- Integrates with Office 365 (Exchange, SharePoint)
- Attaches as external management service to existing document management systems
- Processes new documents via mobile app, Microsoft Teams or a Chatbot



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AI interpreting Clinical MRI:



ScanDiags processes Single MRI-Studies:

Get an **Automated Second Opinion** for your MRI interpretation

Get a **Red Flag Notification** when you don't have enough capacity to process all MRI that were produced

Get an **Automated First Opinion during Training** of new radiologists

ScanDiags does Batch-Processing:

Perform **Automated Peer Reviews**

Get Statistical Quality Analysis during **Retrospective Review** of past cases

Generate 4th dimension reviews of **Time Series**

ScanDiags is being trained on:

Musculoskeletal MRI

Knee
Spine

Heart MRI

Neurological MRI

Brain
Spine

- ScanDiags' cognitive service is trained iteratively through Deep Learning
- High quality training data consists of MRI and manually labeled reports from a large number of hospitals in Switzerland
- Integrate with Office 365 (Exchange, SharePoint)
- Attach as external management service to existing document management systems
- Process new documents via mobile app, Microsoft Teams or a Chatbot



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