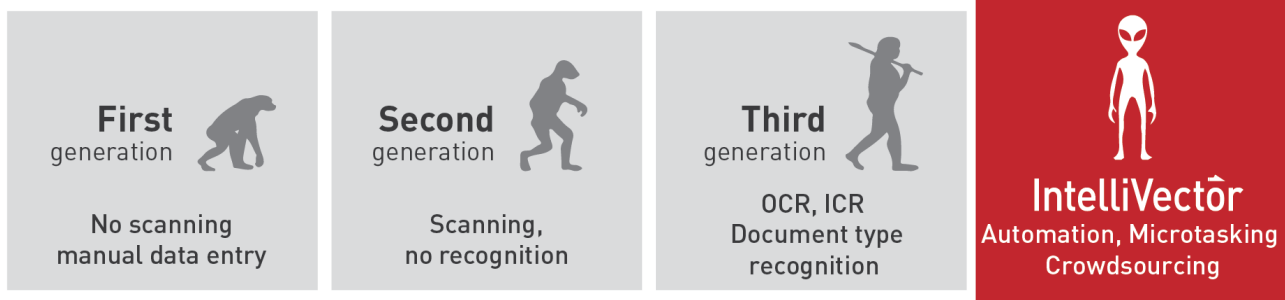


MPS IntelliVectōr

MICROTASK-BASED CUSTOMER DATA PROCESSING

Despite all efforts of becoming paperless, companies all over the world still process large volumes of paper. Generally, there are two approaches to extracting and processing valuable business data from unstructured paper documents or forms. The fully manual approach and the more automated machine recognition. Both have their strengths, but both have their weaknesses. Now imagine a solution, that combines benefits of both approaches to the maximum, while getting rid of their weaknesses!

Due to its adaptable workflow and microtasking approach to data validation, MPS IntelliVector enables companies to achieve the highest possible percentage of automation (including straight through processing), improve data accuracy and data confidentiality, while reducing the processing cost by up to 60-80% on project where typed or handwritten text needs to be extracted and transformed into digital business data!



MPS IntelliVector Highlights

- Transform your workforce and **save up to 90% on processing cost**
- Achieve highest % of automation including **Straight-Through-Processing**
- **Maximize data accuracy** by combining automated recognition and data entry
- Secure **outsourcing and enterprise crowdsourcing**
- **Guaranteed 100% data confidentiality** at every step of the process
- **Easy integration** with popular enterprise systems and capture software

Processing Overview

1. **Automated document type recognition** (document-fingerprinting)
2. Breaking down the document into **small individual data fields** (microtasks)
3. Automated recognition (**OCR, ICR**)
4. Manual **data entry** of microtasks
5. **Automated verification** by cross-checking the results of step 3 and 4
6. **Post-processing & exporting results** directly into back-end-systems



54%
less
TIME



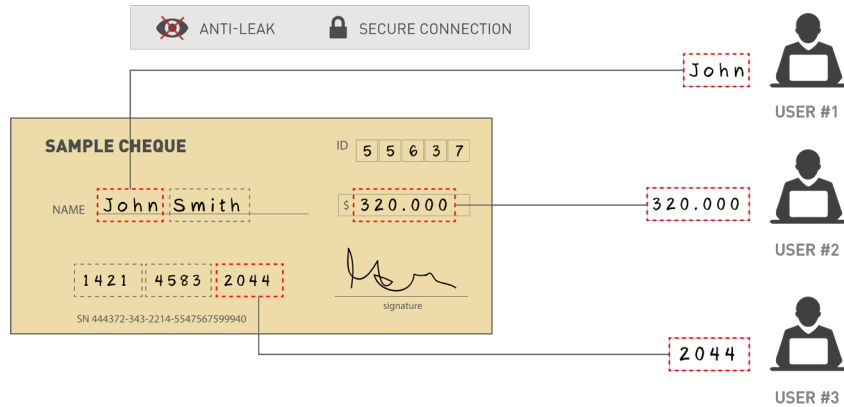
45%
less
EMPLOYEES



90%
less
MONEY



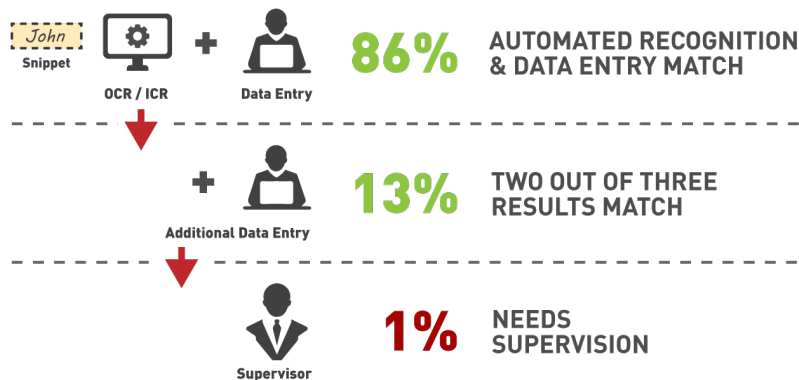
How Microtasking Works



Microtask-based Data Entry for Data Validation

MPS IntelliVector breaks down the documents or forms into small microtasks, like part of a name or an address, or a few digits of a number. These **microtasks are automatically recognized** and checked against databases and validation rules. In cases when straight-through-processing can't be achieved, the same microtasks are **sent out to users to type in for data validation**. These users receive anonymous microtasks out of their original context, meaningless on their own, this way the **confidentiality of the initial data is guaranteed**. The results of the automated recognition and the manual data entry are crosschecked for result validation, leaving only about **1% of the cases that require quality control**

This approach allows companies to **outsource or crowdsource data entry**, to minimize processing cost **without risking the confidentiality of the initial data**.



99% Supervision Free

Comparing OCR/ICR results with data entered by the user. **In most of the cases they match**, hence no further action is necessary.

Only if ICR/OCR and the first data entry differ the microtask is sent for a second data entry. This step almost always provides a match.

A mere 1% of cases – where none of the results match – need quality control by a supervisor

HIGH DATA ACCURACY + SIGNIFICANT SAVINGS ON PROCESSING COSTS!



Further Benefits

- **Faster data entry and validation** (microtasks vs. full page processing)
- **On-the-fly addition of new form templates** (no need for IT)
- **Support of special characters (3 byte)**
- **Simplified & fast UI, rapid go-live** (no training required)
- **Multilingual interface** (English, Arabic, Thai, Russian, Malaysian, Vietnamese)
- **Work distribution and gamification**

THESE FEATURES MAKE MPS INTELLIVECTOR A REAL VALUE ADD EVEN TO EXISTING DOCUMENT PROCESSING AND DATA CAPTURE SOLUTIONS