

Advanced Capture Management Solutions

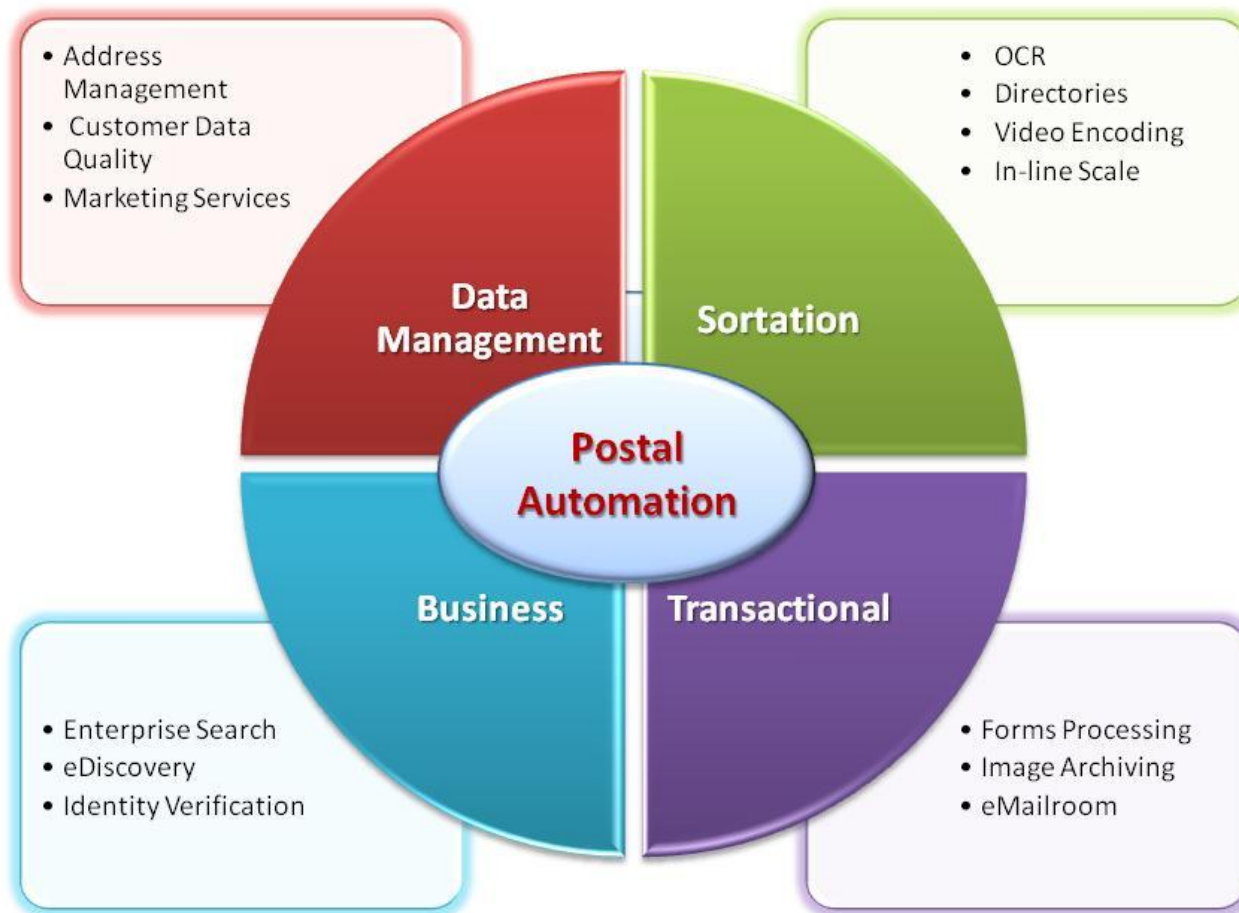


Your OCR and Pattern Recognition Partner

worldwide leader in advanced image recognition
and extraction solutions



Postal Automation Perspective

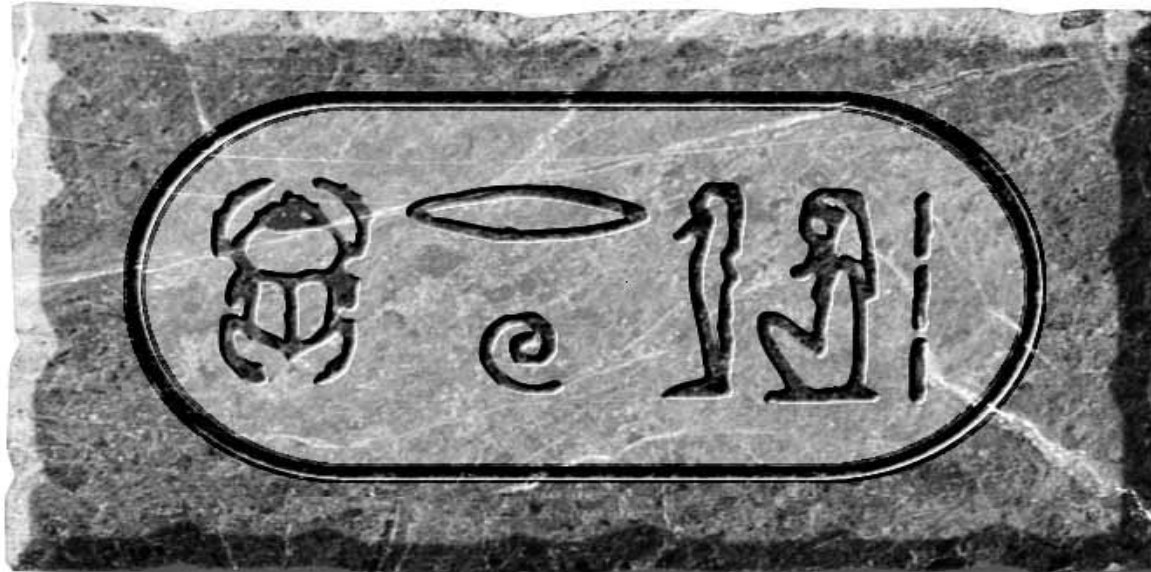


Recognition Value Propositions (ROI 12 Months)



- Document Preparation
 - Paper to electronic conversion
 - Automate Indexing (OCR), meta tagging
 - Archiving and traceability
- Automation of Document Validation
 - Reduce manual process and department cost (40%)
 - Improve distribution efficiency by proper routing (20%)
 - Expedite delivery and minimize undeliverable as addressed
- Enable Creative Revenue Opportunities and Protection
 - Reduction in lost revenue(\$ thousands +)
 - Systematic analysis and processing of documents (\$ thousands +)
 - Expand direct marketing opportunities by leveraging customer data

Cartouche



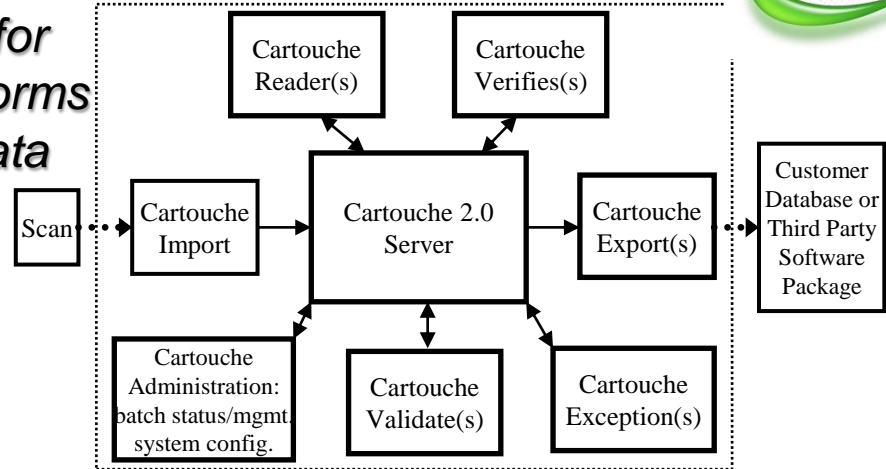
**Is the Ultimate Data Engine to Capture,
Retain, Process and Validate Data**

Cartouche Overview

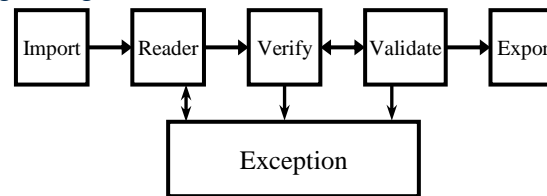


Cartouche is a fully integrated system for reading, extracting, and validating all forms of data from a digitized page. These data forms include:

- Form Identification
- Text and numeric characters
- Bar codes
- Mark sense fields (OMR)
- Special Fonts & Symbols
- Data Validation



Single Page Flow



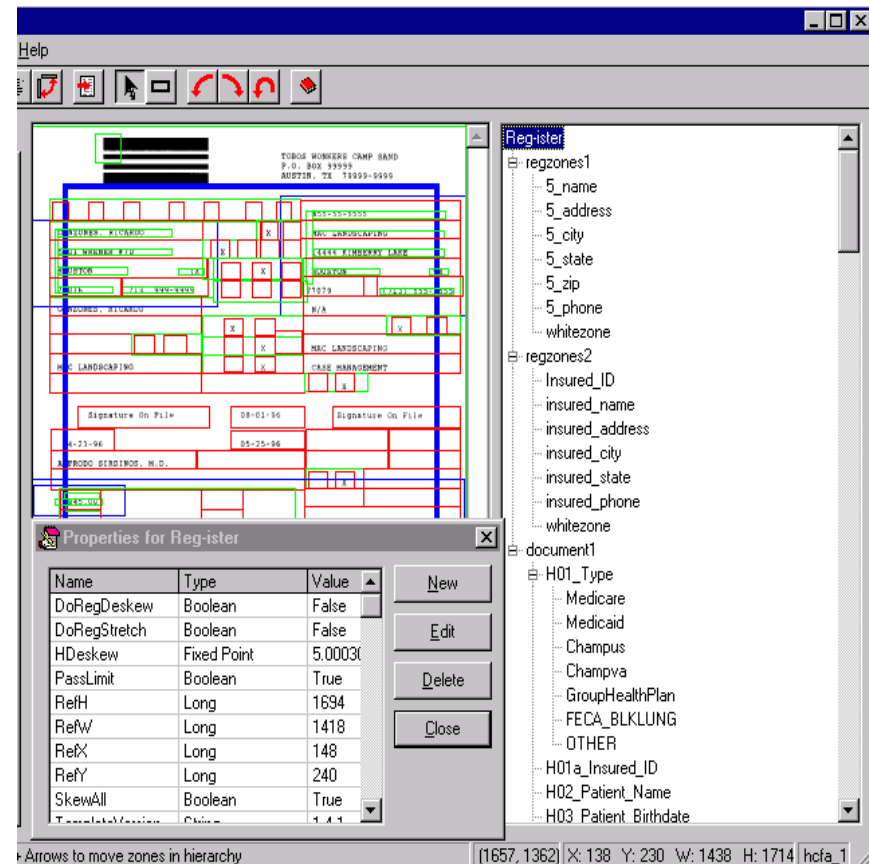
Cartouche performs all the steps required to convert a scanned image into an exportable format suitable for inclusion to a database.

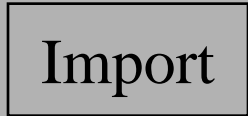
The product integrates workflow management to control and schedule batches of tasks to be processed, have errors manually corrected, validation performed and export completed.

Scanner and Software

Critical to the OCR Process!!!!!!!!!!!!

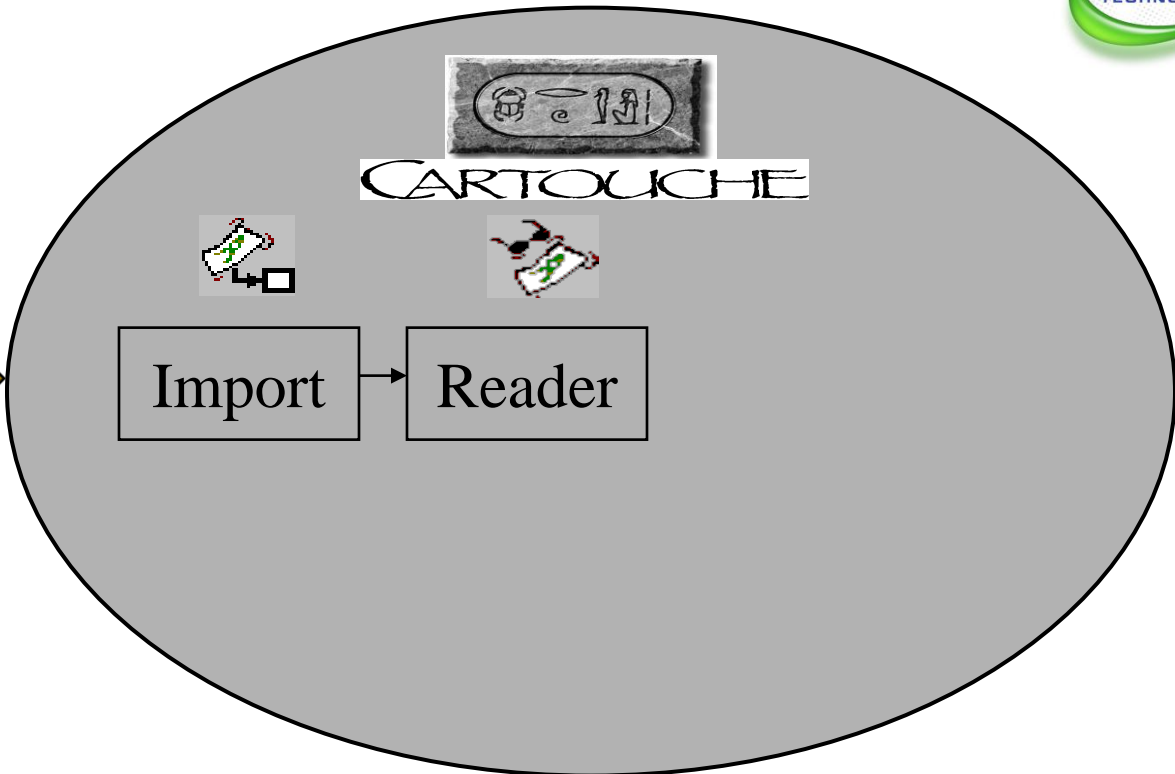
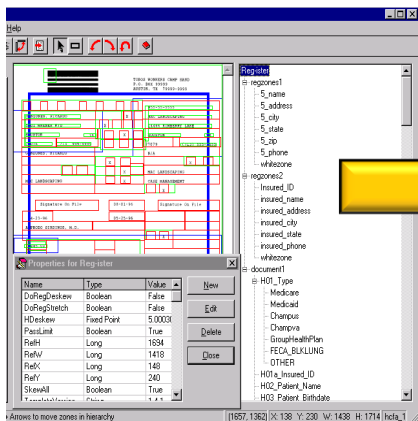
- 1) 200 or **300** dpi.
- 2) Tiffs - Group 4 compression.
- 3) If you can't read it we can't read it.
- 4) Noise (extra pixels).





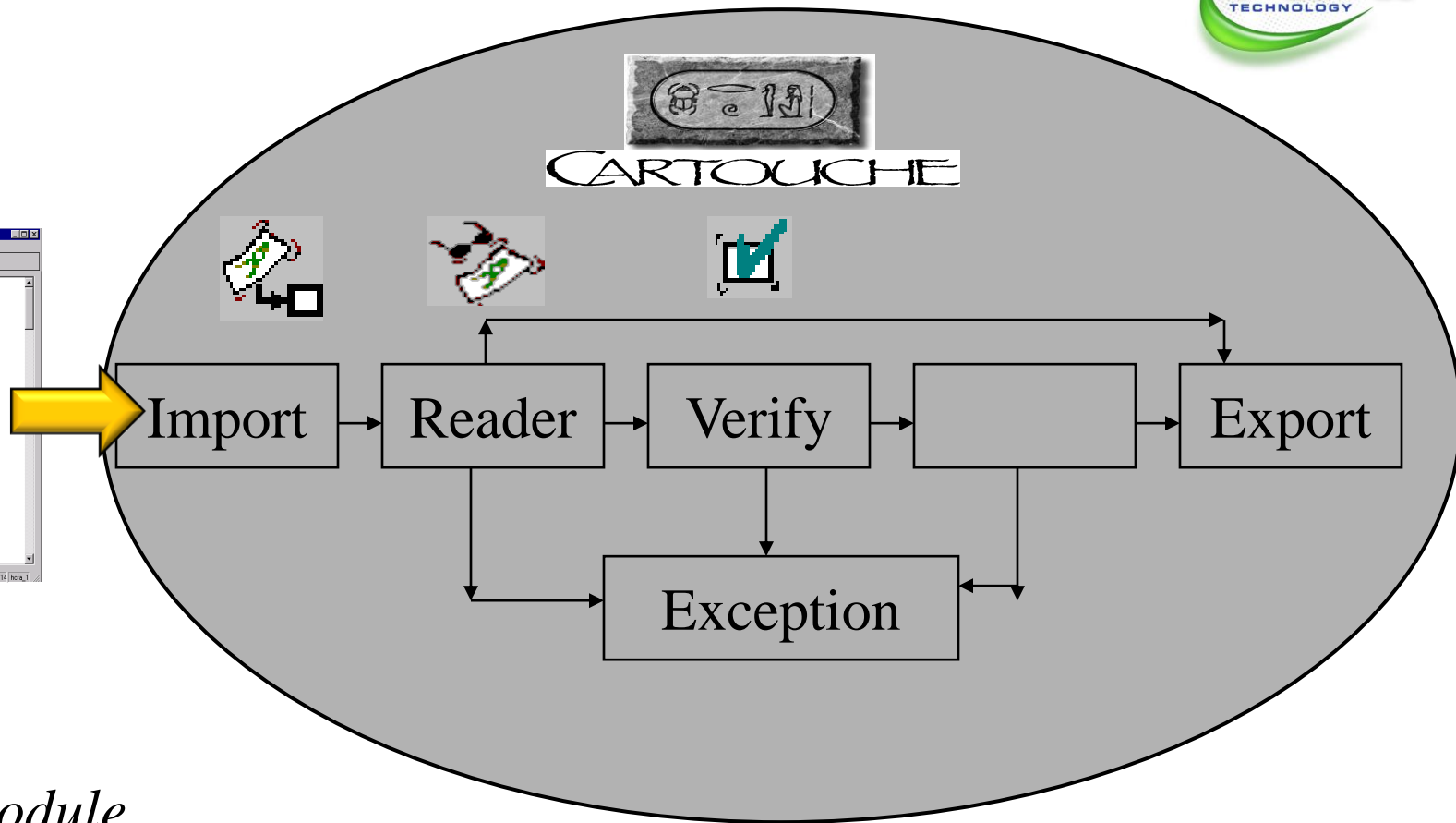
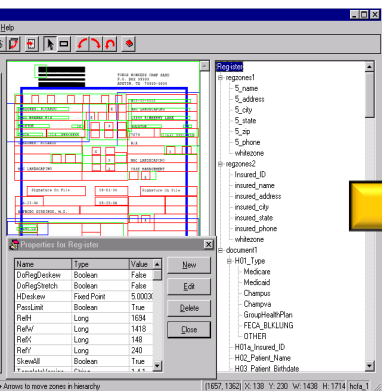
- 1) Create a batch from the published blueprints.
- 2) Import the tiffs for the batch.
- 3) Close the batch when all tiffs are imported .

(export will not export if the batch is open for import)



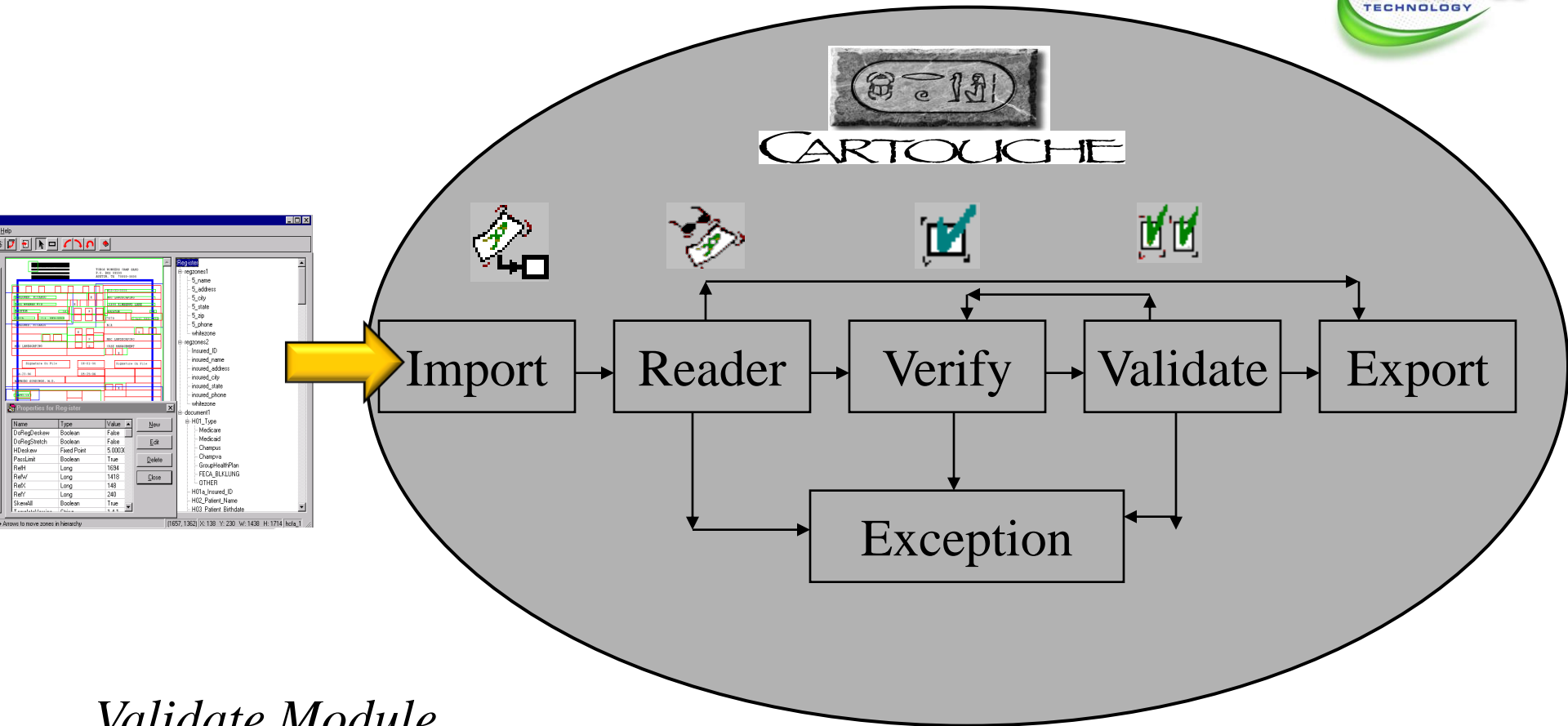
Reader Module

- 1) Identification (which form is it ?).
- 2) Registration a) deskew b) stretch c) offset (translation).
- 3) Recognition. a) Data Extraction b) Contextual Arguments



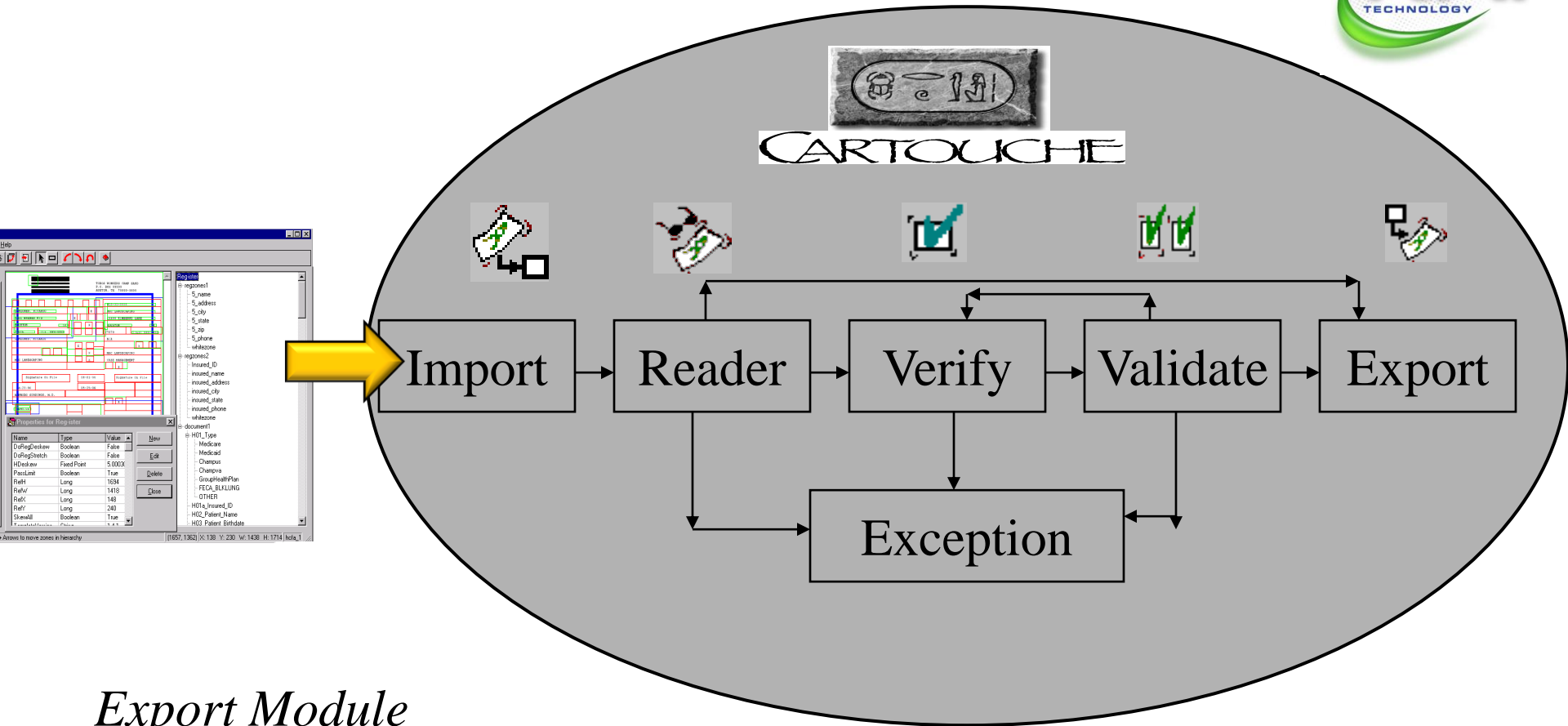
Verify Module

- 1) Appropriately named.
- 2) Clean-up.



Validate Module

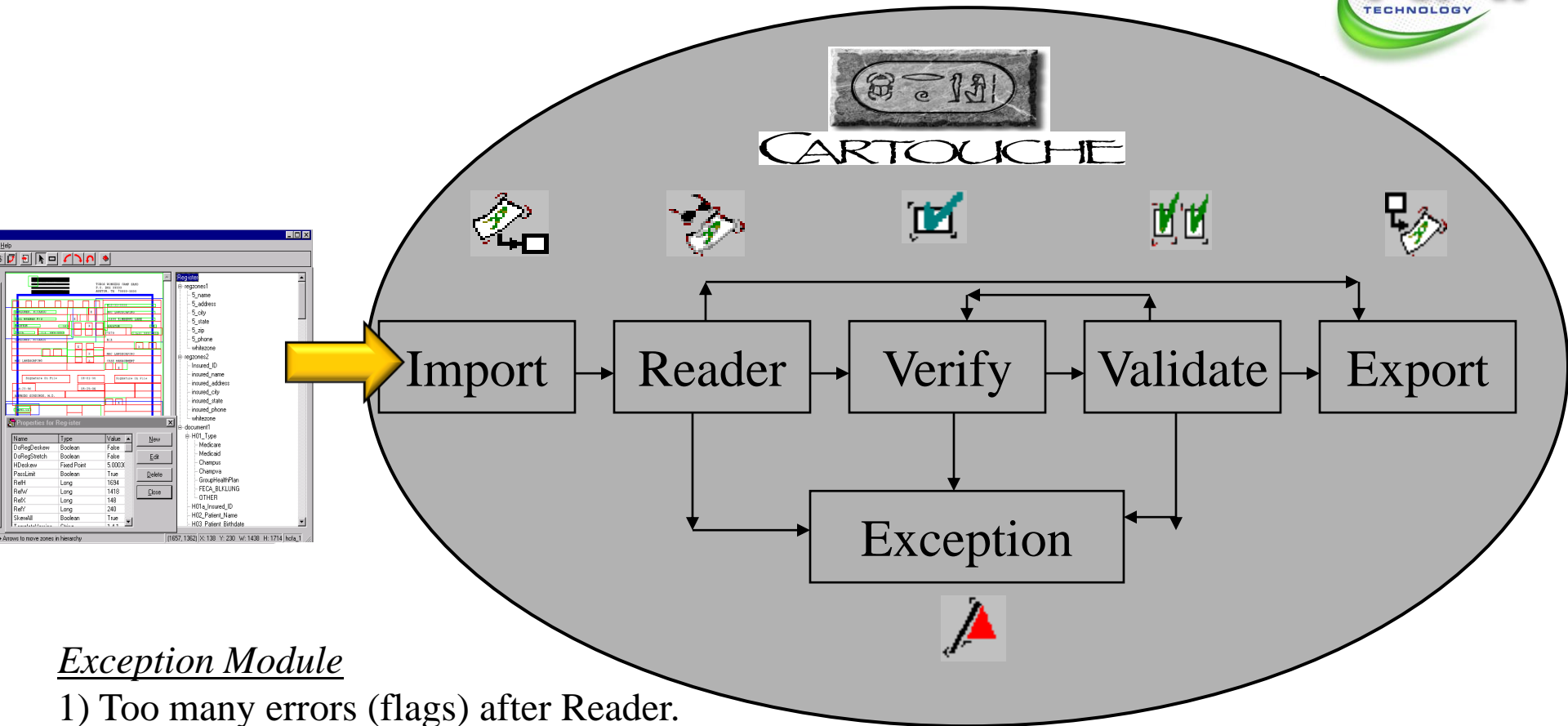
- 1) The person working the Verify can make mistakes.
- 2) The Validate checks the Verify operator with the rules given it.



Export Module

There are two forms of export.

- 1) Tab delineated.
- 2) Fixed length



Exception Module

- 1) Too many errors (flags) after Reader.
- 2) Could not identify.
- 3) Could not register.
- 4) Rejected by the Verify Operator.
- 5) Errors occurred.

Case Study – Olympics Ticket Form



- 93% Single key entry
- 95% ICR without context
- 98.54% *RAF's Cartouche* using context inside recognition
- 99.42% *Cartouche* after edit of flagged characters

Atlanta 1996
TICKET REQUEST FORM

MARKING INSTRUCTIONS: • Use a BLUE or BLACK BALL PEN only. Do not use a ballpoint pen. • Please PRINT LEGIBLY. Use one character per block as the indicated areas. Keep all printing. • Make a copy for your records, submit original only.

MARKING EXAMPLES: Correct: 1 Incorrect: 2 Use CAPITAL letters for HANDPRINT areas.

1 CUSTOMER INFORMATION

OR MENGE JACK H

1921 WILLIAM PENN WAY
LANCASTER PA 17601 717 295 1796
MEHAFFEY 0605 717 295 1796

2 TERMS AND CONDITIONS

3 PAYMENT TOTAL

4 Total Ticket Price 16000 0

5 Ticket Fulfillment Fee 360 0

6 Non-Refundable Processing Fee 150 0

An orange starburst icon with multiple points, resembling a sun or a star.

Radiant Asset Management

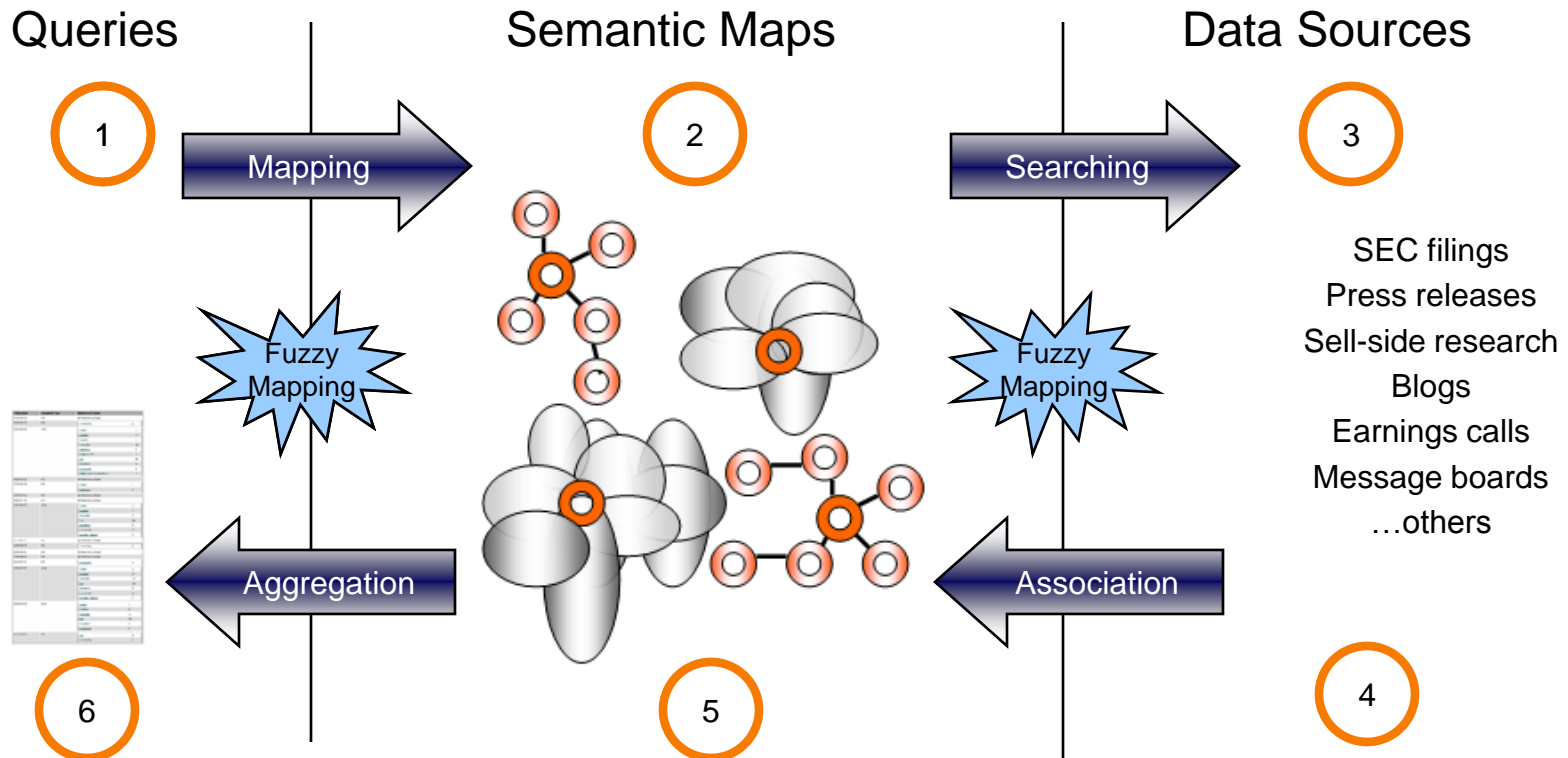
Semantic Search

Semantic Engine Process



Innovative Approach: Process for Finding, Scrubbing and Quantifying Relevant Data

Our semantic search engine finds relevant data in text and quantifies it for later use.



Example...finding “Rising Margins”



Radiant Metrics


Import | Watchlists | Companies | Models | Reports


Sources | Concepts | Logout

Result 1 of 5 from RJF: 8-K on 01/04/2004

Concept:

Company:

From: 

To: 

Pinpointing “Rising Margins” concept for Raymond James Financial within SEC filing, 8-k document

Only Examine Unvalidated: ☐

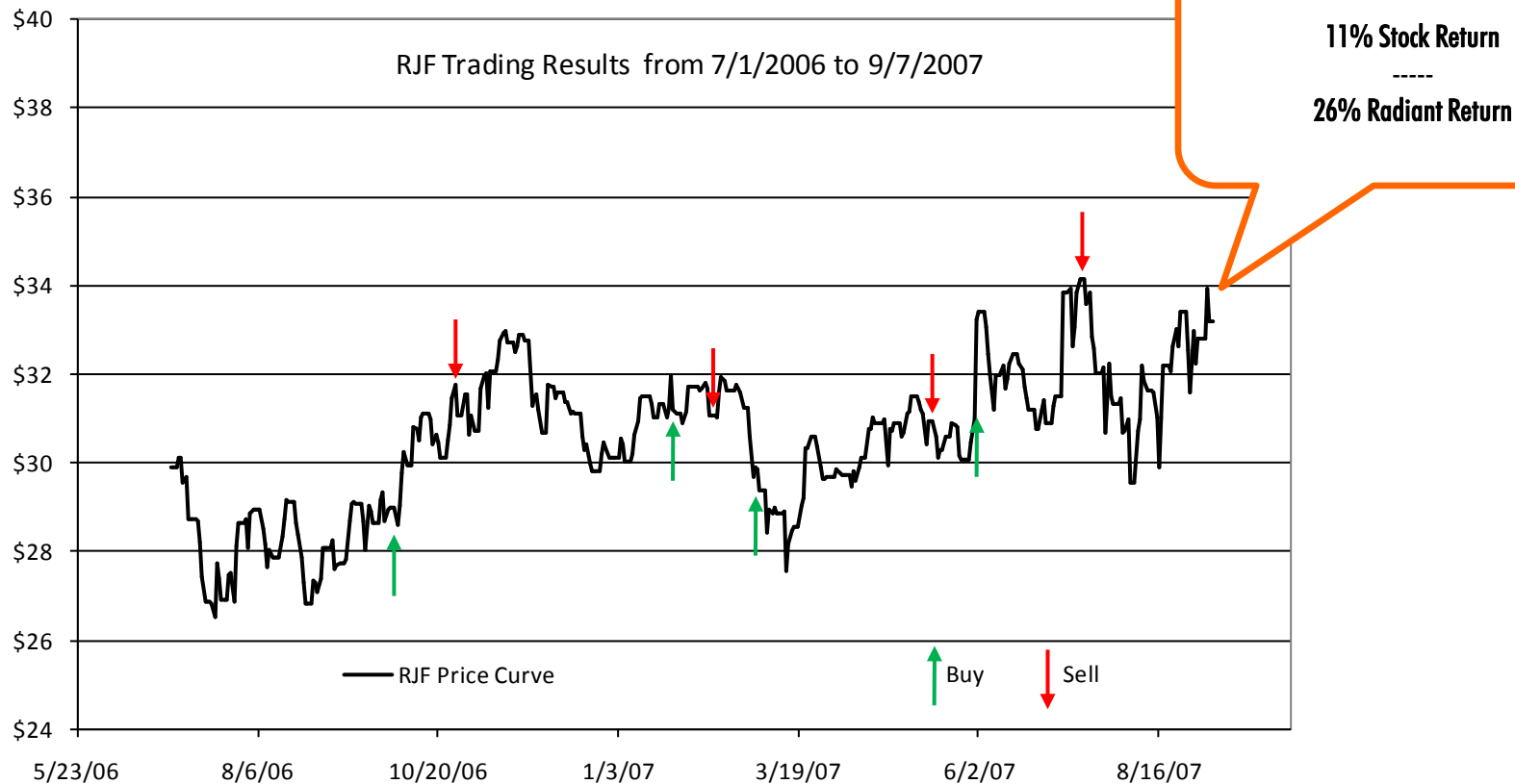
remains strong and corporate earnings are rising rapidly. Later this year, interest rates will probably begin to increase, dampening the robust growth in the economy, but the intermediate-term outlook is still benign as the rate of increase probably will be gradual," he concluded.

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It Works, Proven Results



o Trading Example: Raymond James Financial (RJF)



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Information Please
call us at
1 (425) 867-0700**

