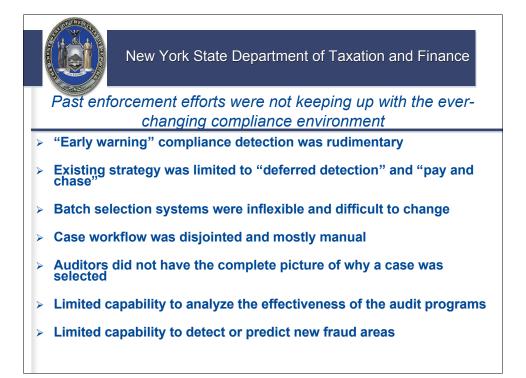


Using Advanced Analytics for Refund Denial

Presented by: Tim Gardinier, Manager, Data Processing Services







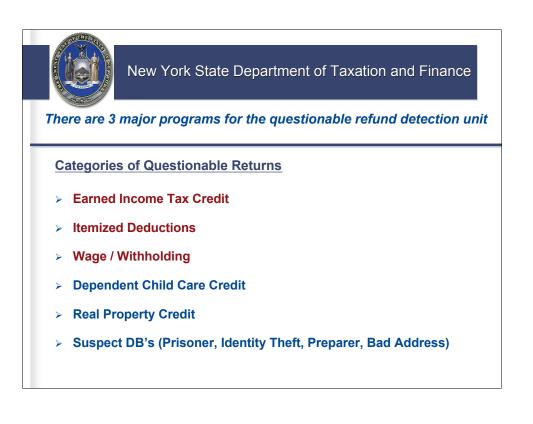
The project objective was to build a system to enhance existing audit case selection methods for fraud detection of pre-processed Returns

The Questionable Refund Detection unit wanted...

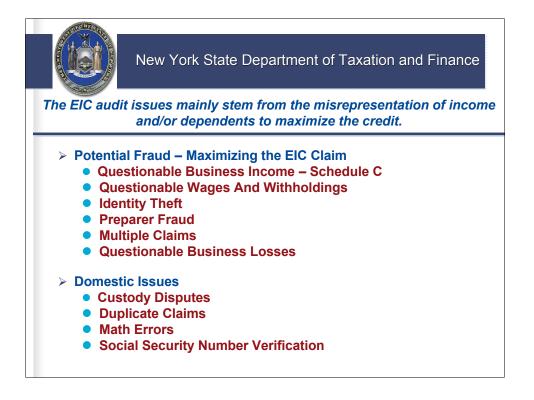
- A better way to identify questionable returns
- > To question suspect returns before issuing refunds
- > To improve the ability to collect on additional tax audit cases
- > To issue refunds in a timely manner
- > To make program management more flexible
- To leverage investments in data warehousing and business intelligence technologies
- To scientifically predict good audit candidates utilizing return filing patterns, case history, and other external indicators
- > To improve their ability to detect new areas of fraud

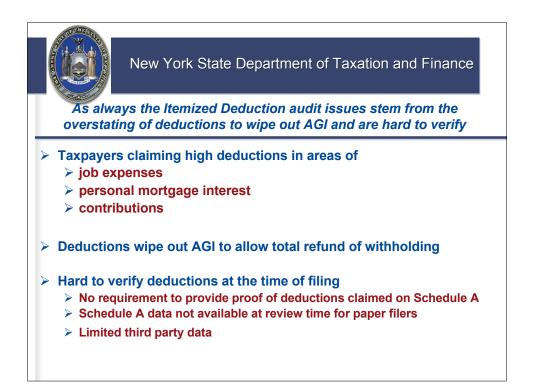


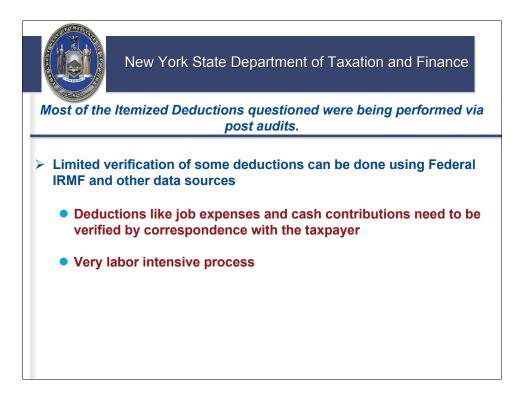
Business Background

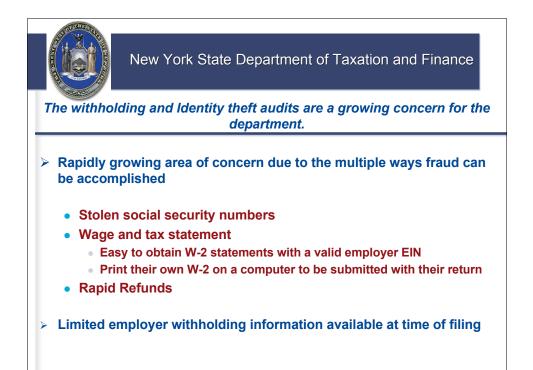


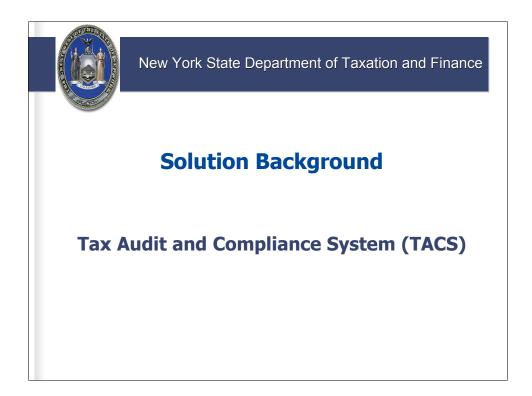


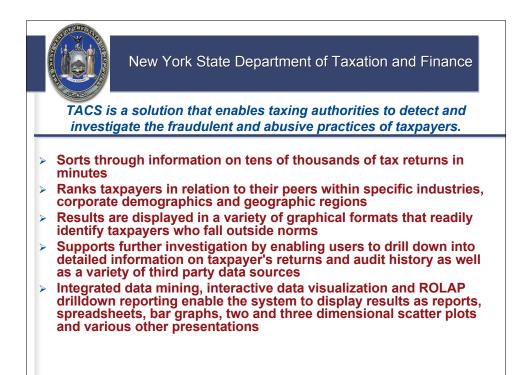


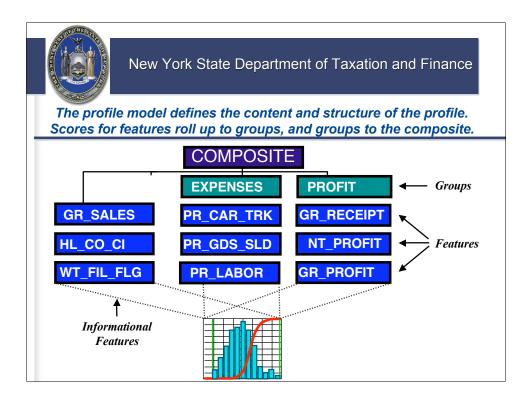


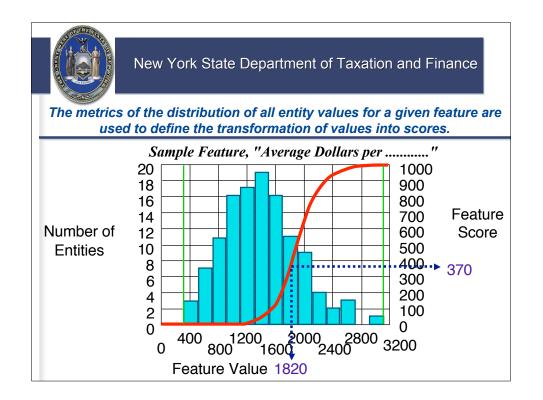


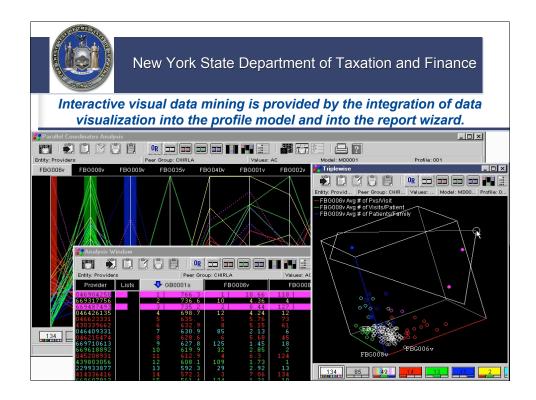


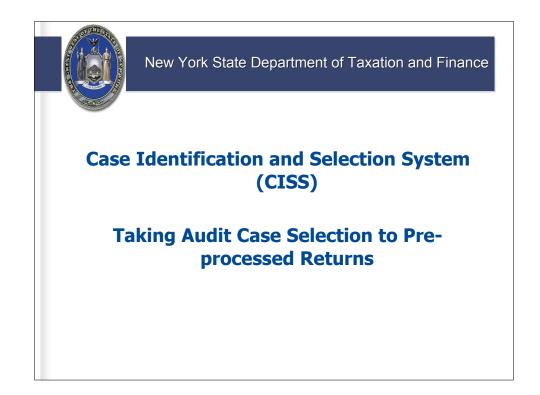


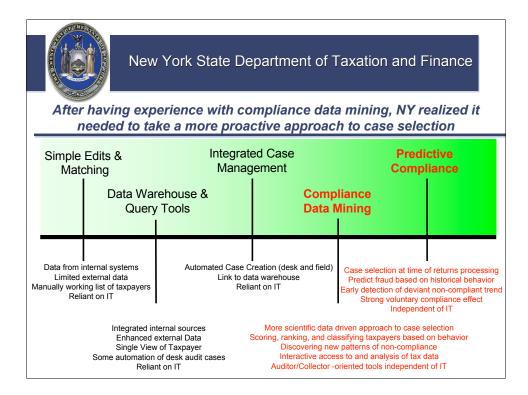




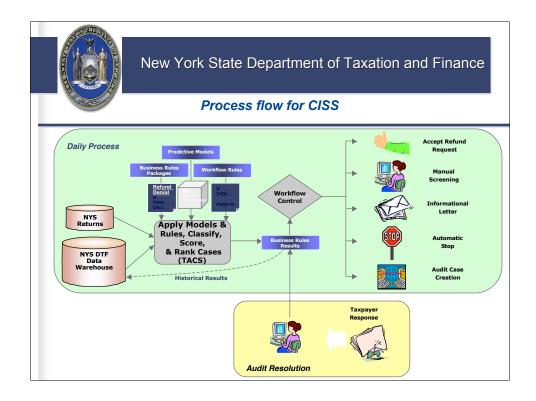


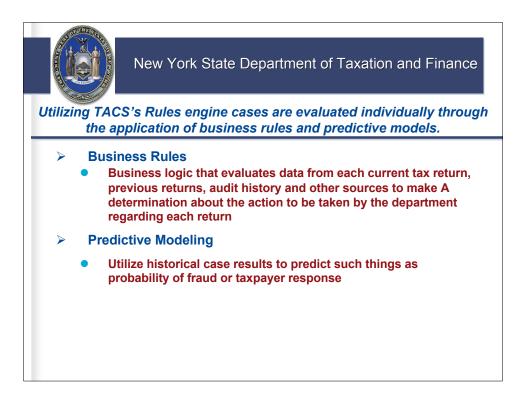


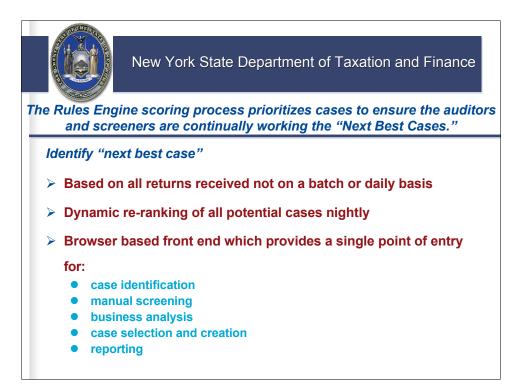




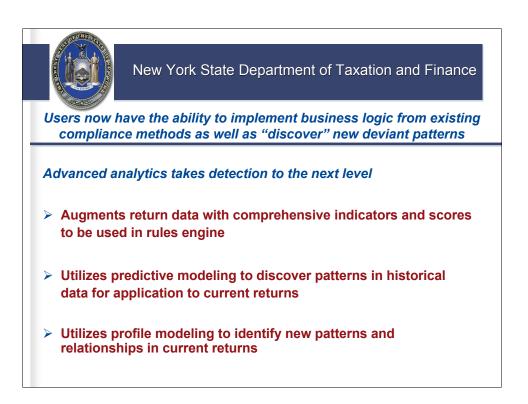


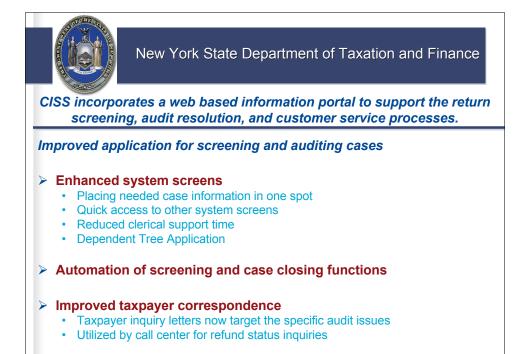


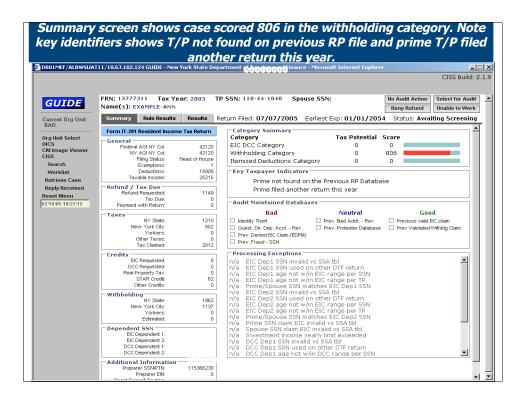














Results

New York State Dep The audit division has realized increa projected to be a gain of ou	sed revenue fr	om the p	revious years
Processing	<u>Year 2003</u>	<u>2004</u>	<u>2005</u> *
Inquiry Letters Issued	55,776	74,000	78,000
Response Rate (%)	41%	41%	32%
Response Denial Rate (%)	80%	87%	TBD
Denied Refunds	\$39 M	\$80 M	\$92–100M
* 2005 Numbers are projected the	rough the end	of the yea	ar



Even with the increased letters and revenue we are still only questioning less than 6% of the population.

Processing Year	2004	<u>2005</u> *
EIC Returns Filed	1,469,719	1,421,324
Inquiry Letters Issued	74,000	78,000
Pct Questioned	5%	5.5%
EIC Dollars Claimed		
(New York State)	\$759 Million	\$756 Million
(New York City)	NA	\$ 73 Million
Total EIC Dollars Claimed	\$759 Million	\$ 829 Million
Total Dollars Questioned	\$80 Million	\$96 Million
Pct of Total EIC Dollars Questioned	10%	11.5%
* 2005 Numbers are through 6/8/2005		

New York State	Department o	f Taxation ar	nd Finance
ISS provides the capability of of letters to send			
Processing Year	2003	2004	<u>2005</u>
Inquiry Letters Expired Potential Denied Refunds (\$)	27,458 \$30.6 M*	49,966 \$70 M**	0*** 0***
•These cases were selected into however were not sent due to th additional potential responses	ne limitations of A	udit to handle	the
** On the assumption that the C		ere reduced to 5	500 and the
probability of fraud were reduce	d to .74		



Additional letters could be sent however the program must manage to the predicted response rates due to resource constraints.

	<u>Current</u>	<u>Safe</u> Potential	<u>More</u> Aggressive
EIC Returns Filed	1,421,324	1,421,324	1,421,324
Inquiry Letters Issued	78,000	106,000	147,000
Pct Questioned	5.5%	7.5%	10.3%
EIC Dollars Claimed			
(New York State)	\$756 Mill	\$756 Mill	\$756 Mill
(New York City)	\$ 73 Mill	\$73 Mill	\$ 73 Mill
Total EIC Dollars Claimed	\$ 829 Mill	\$829 Mill	\$ 829 Mill
Total Dollars Questioned	\$96 Mill	\$134 Mill	\$163 Mill
Pct of Total EIC Dollars Ques	11.5%	16.1%	19.6%





Build on our success from the previous years.

Future Compliance Initiatives

- > Enhanced Refund Denial
 - Filing Status
 - Demographics Data
 - Preparer Analysis
- > Expansion into other Audit Programs
 - Non-resident
 - Tax Shelters





Questions?