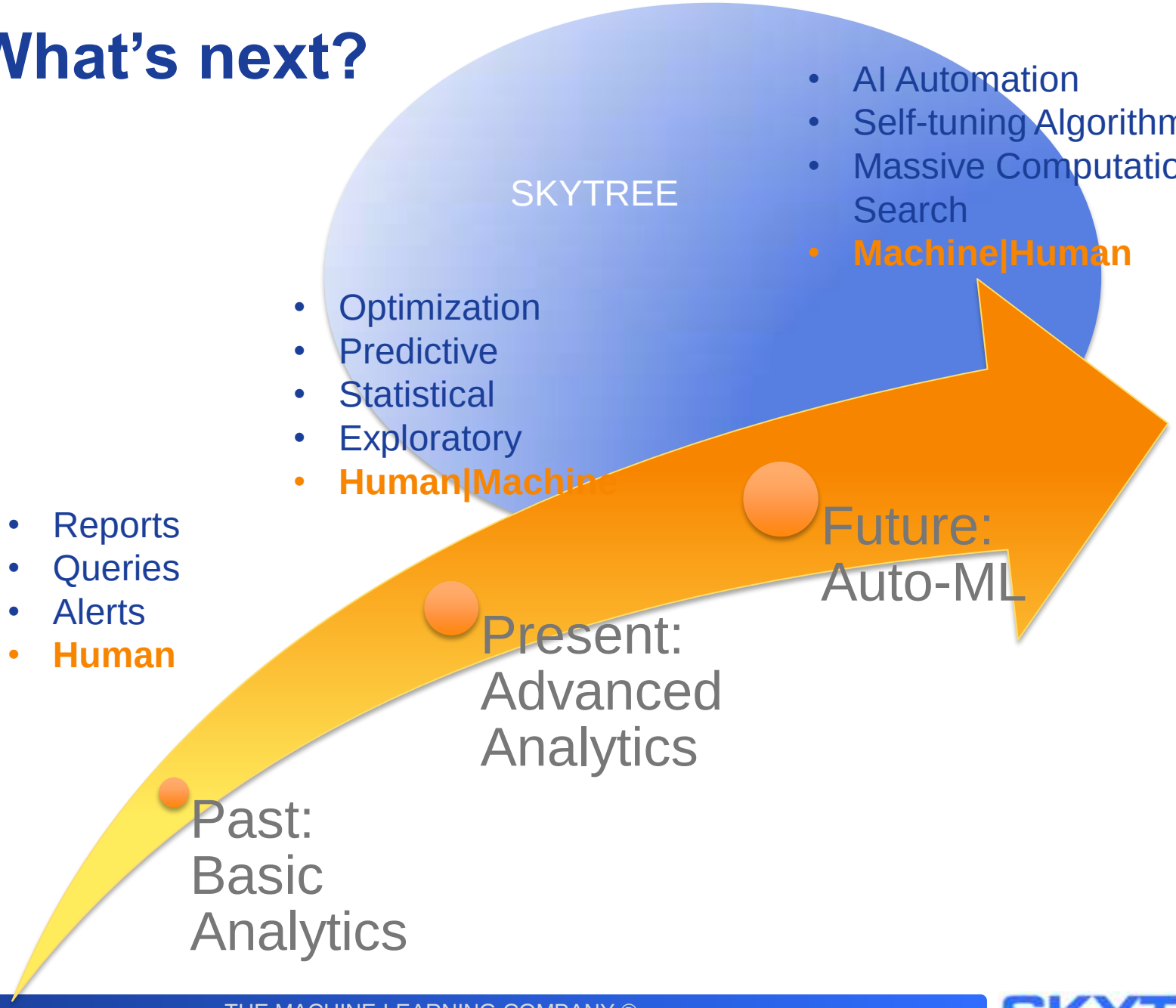
SKYTREE®

THE MACHINE LEARNING COMPANY

High Performance Machine Learning
for
The Data Driven Enterprise

MARTIN HACK
CEO & Co-Founder
martin@skytree.net

What's next?


SKYTREE
• AI Automation
• Self-tuning Algorithms
• Massive Computational Search
• Machine|Human
• Optimization
• Predictive
• Statistical
• Exploratory
• Human|Machine
• Reports
• Queries
• Alerts
• Human
Future: Auto-ML
Present: Advanced Analytics
Past: Basic Analytics

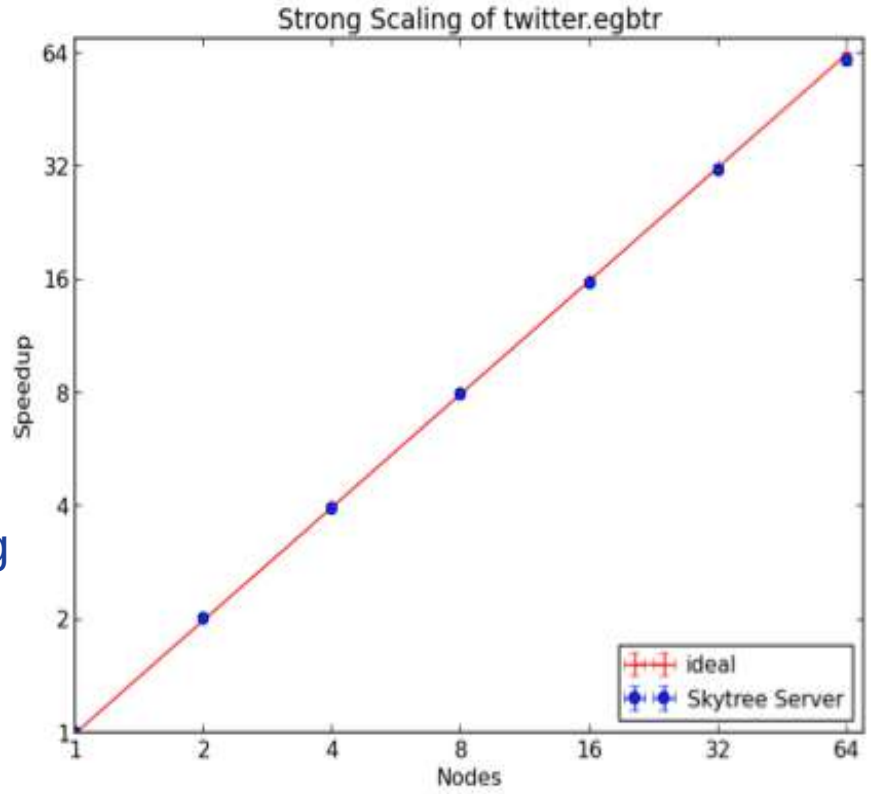
Scale: Multiple Machines for Higher Performance

Strong scaling*

Data:

- 64 nodes (1024 cores)

*Skytree also supports weak scaling



Nodes N	Cores	Speedup (ideal)	Mean Speedup μ (Skytree Server)	Standard Deviation σ
1	16	1	1.00013	0.0122826
2	32	2	2.00665	0.00644421
4	64	4	3.95269	0.00432337
8	128	8	7.9136	0.0296349
16	256	16	15.6988	0.128573
32	512	32	31.2751	0.110139
64	1024	64	61.1329	0.867193

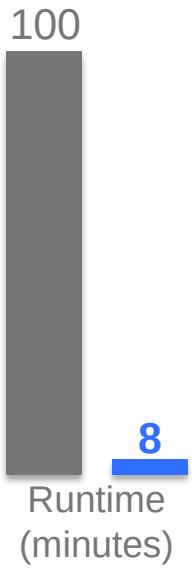
Speed – Scale – Accuracy = Competitive Advantage

Micro Targeting – Find New Customers

- ***Global 100 Financial Institution***
- Major Pain points: Speed & Accuracy of Current approach

CURRENT:

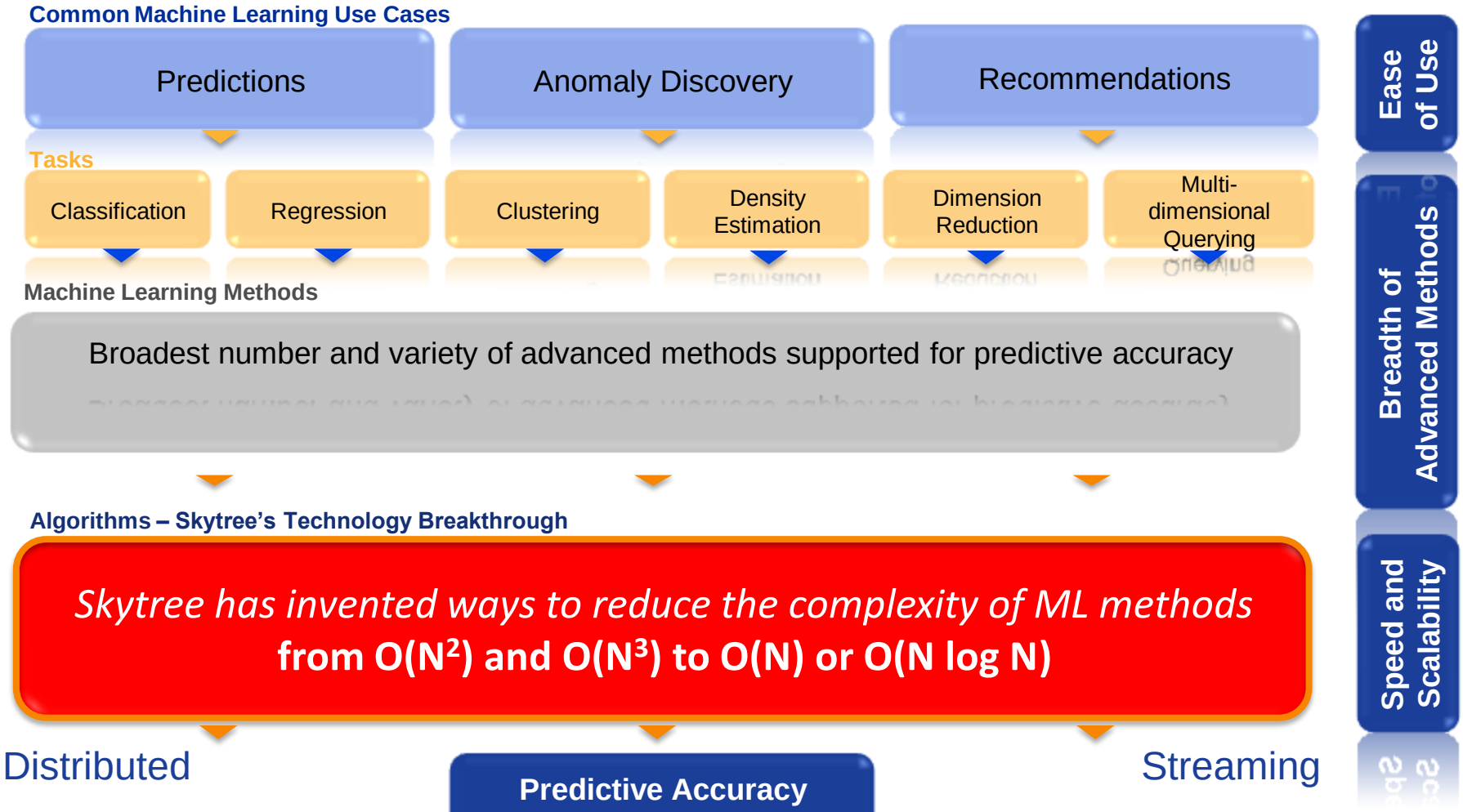
1,200 Cores @100 Node
Hadoop Cluster
Runtime: 100 Minutes
Accuracy (Gini): 57%



SKYTREE SERVER:

12 Cores @1 Node
1250x speedup
Runtime: 8 Minutes
Accuracy (Gini): 60%

Skytree Server



SAME DATA.
BETTER RESULTS.

Thank you.