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TECHNOLOGY

BDA
AST BIG DATA ANALYTICS

AST-BIG DATA ANALYTICS

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Why AST-Big Data Analytics:

Big Data Analysis allows us to see:

- Deeply, accurately and in real time systems are working.
- Energy and resources consumptions.
- Optimising occupant health, comfort.
- Enhanced decision making and process optimization.
- Fault finding, decrease Non Productive Time and save maintenance cost.

With AST-Big Data Analytics support, system providers can strip Millions of Dollars from the energy and maintenance bills.

Therefore, the challenge of big data analytics really starts with big data management and then the analytics.

Renowned references

Coca-Cola, CMA CGM, Shire, Akamai, lisi AEROSPACE

blu.e by ENGIE, ArcelorMittal, Ferroglobe, AUBERT&DUVAL, ERAMET

Technical partners:

aws, R, python

Integrated with:

SAP, OSIsoft.

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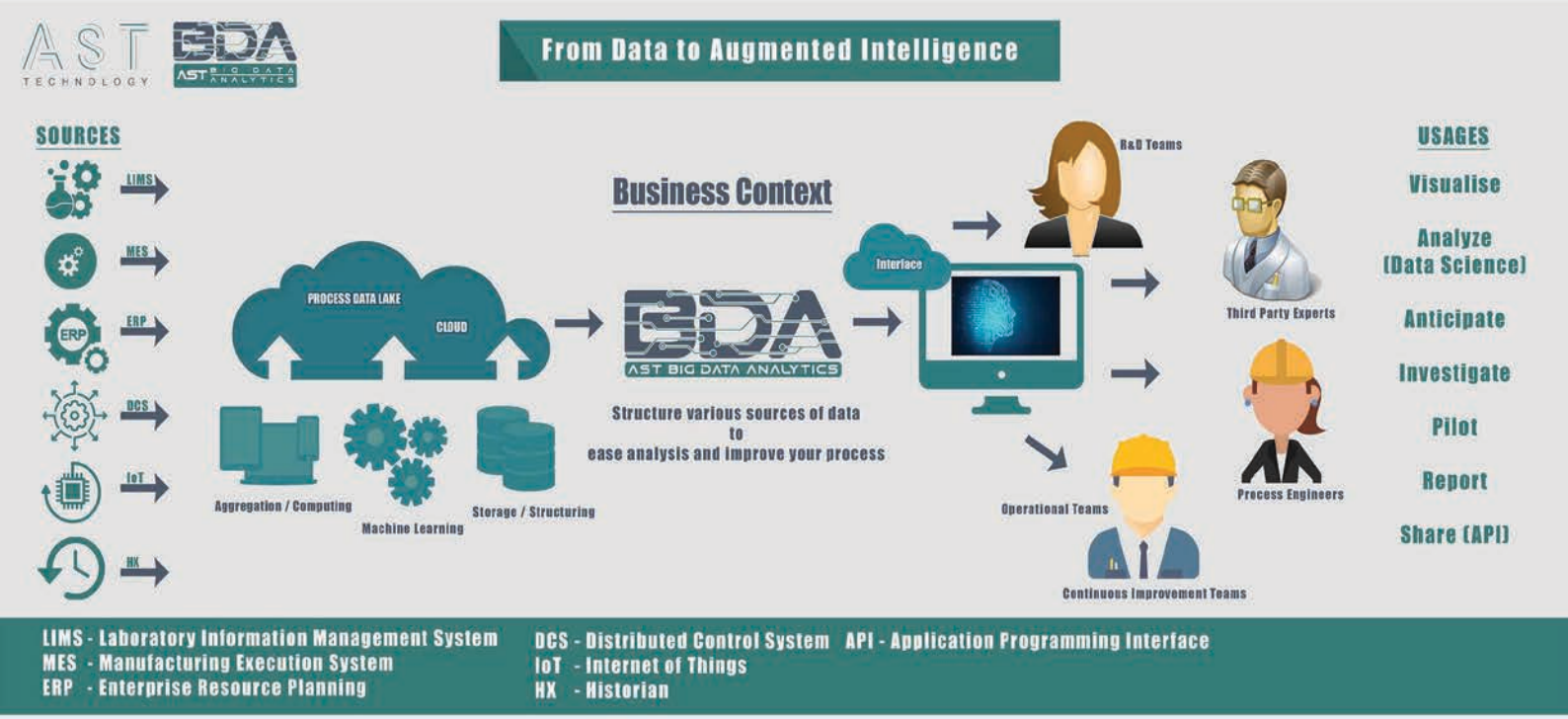
Data Lake regroup various sources of data:

- To generate smart data.
- To anticipate predictive maintenance-improve reliability.
- To optimize cooling and heating process streams.
- To monitor efficiency of the control systems.
- To enhance team's capabilities.



What you can expect from AST-Big Data Analytics:

- Automaticaly updating the structured / Smart data.
- Live KPI for faster decision making.
- Make your own taylor-made dashboard for better monitoring.
- Find the most relevant parameters that optimize your targets.
- Find unexpected solutions.
- Same time-improve your investigations.
- Create information platforms for facility managers and sustainability leaders.

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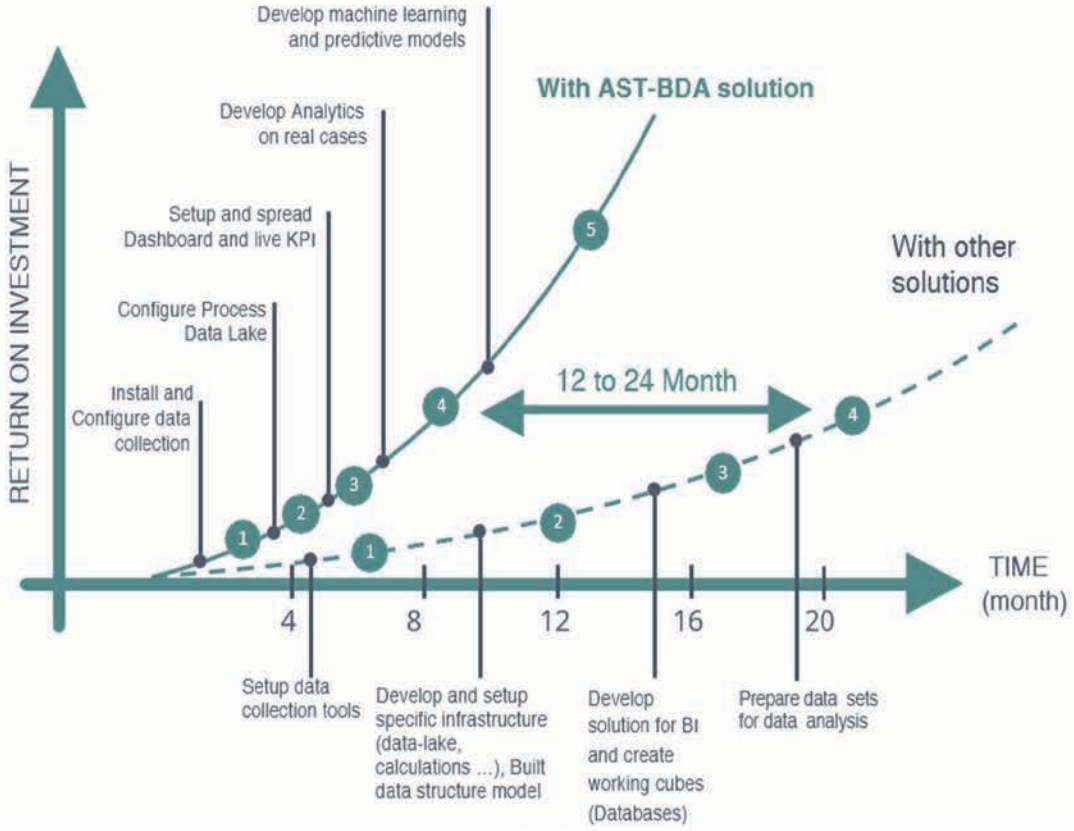
Fast results for risk-free investment:



1. Collect Data
2. Store, Configure and Go live
3. **Visualize information for business operations** (Dash boards , Reporting, SPC , MEE, Database...)
4. **Analyse, optimize** (IA/ML)
5. **Predict, anticipate** (IA/ML)

The Benefits of improving system using AST-Big Data Analytics:

- No Capex.
- Risk-Free investment.
- High return.
- Leading far ahead of other competitors.
- Quick result.
- Minimum non-productive time.

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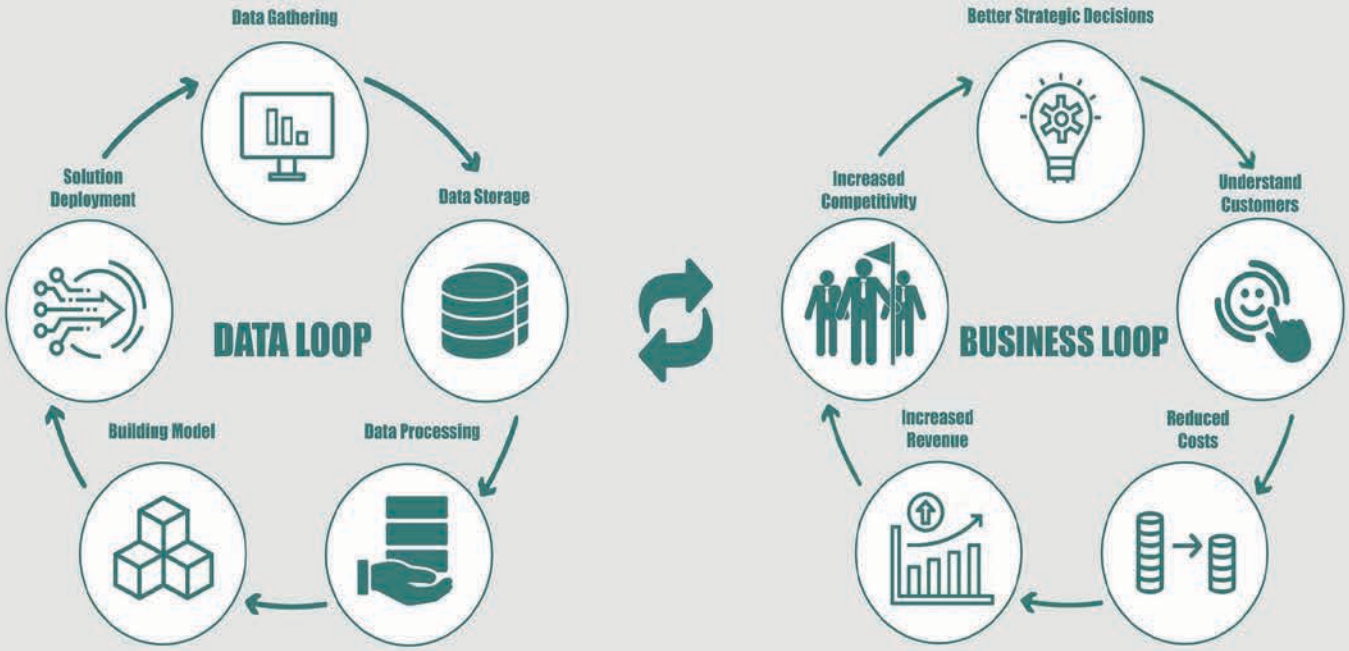
AST-BDA Improve your Decision making process:

We leverage state of the art machine learning techniques and develop online tools for data-driven decision making across industries.

Applications include:

- Business market forecasting,
- Customer segmentation,
- Recommendation engine,
- Supply chain management,
- Logistic optimization,
- Predictive estimation for maintenance and repair,
- Manufacturing process optimization,
- Revenue forecasting.

Decision Making Process



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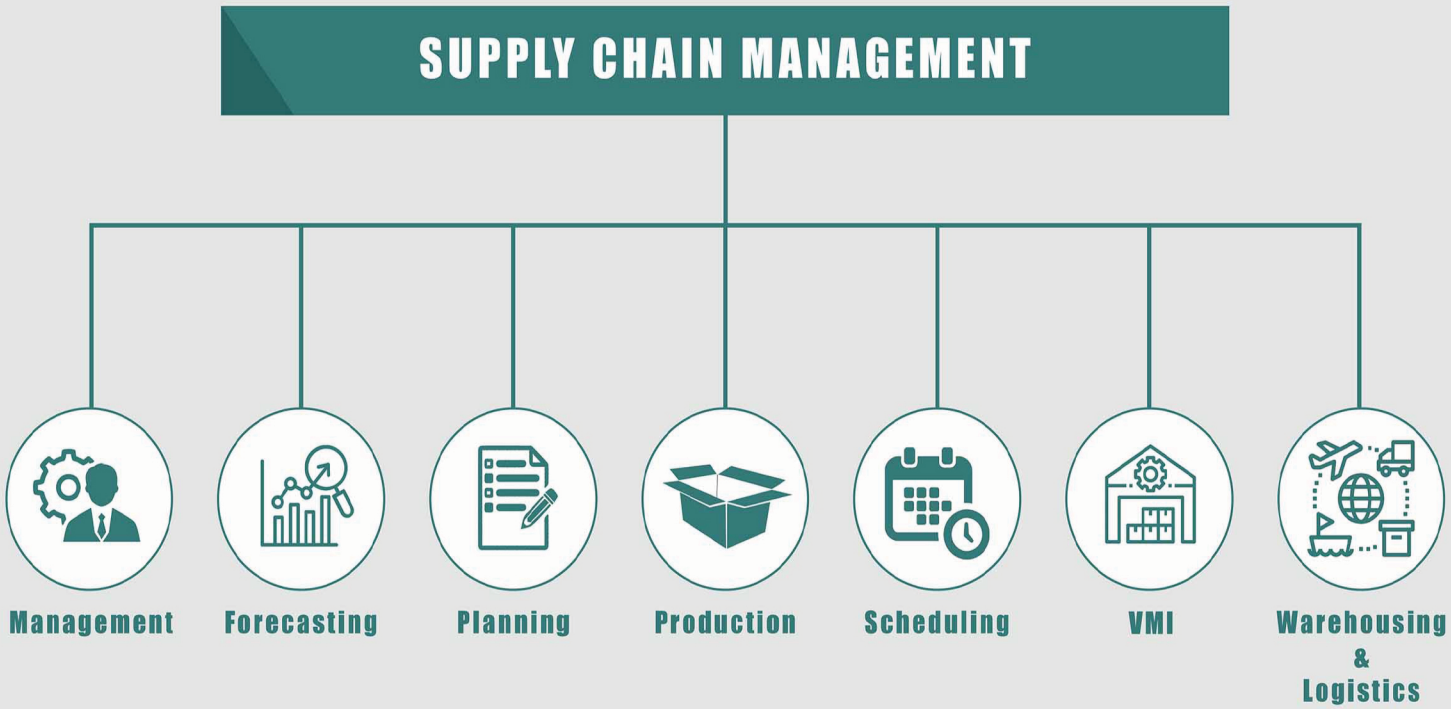
Supply Chain Management:

We create the most reliable Supply Chain and operational processes by understanding your business complexity and the intrinsic nature of its variation.

Applications across the Supply Chain:

- Demand Management.
- Demand Analysis & Forecasting.
- Procurement Planning.
- Material Requirement Planning.
- Master Production Scheduling.
- Vendor Manage Inventory (VMI).
- Warehousing & Logistics.



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AST-BDA industrial experiences:

- **Manufacturing**

Increase throughput, supply chain efficiencies, and services revenue

- **Oil & Gas**

Improve uptime, increase production output, mitigate risk, and optimize processes

- **Utilities**

Improve asset health and increase customer engagement

- **Banking**

Improve operational efficiency, increase customer engagement, and mitigate risk

- **Healthcare**

Improve health outcomes, reduce care costs, and improve patient experience

- **Retail**

Transform shopper experience and supply chain capabilities

- **Telecommunications**

Improve customer mix and reduce operating costs

- **Smart Cities**

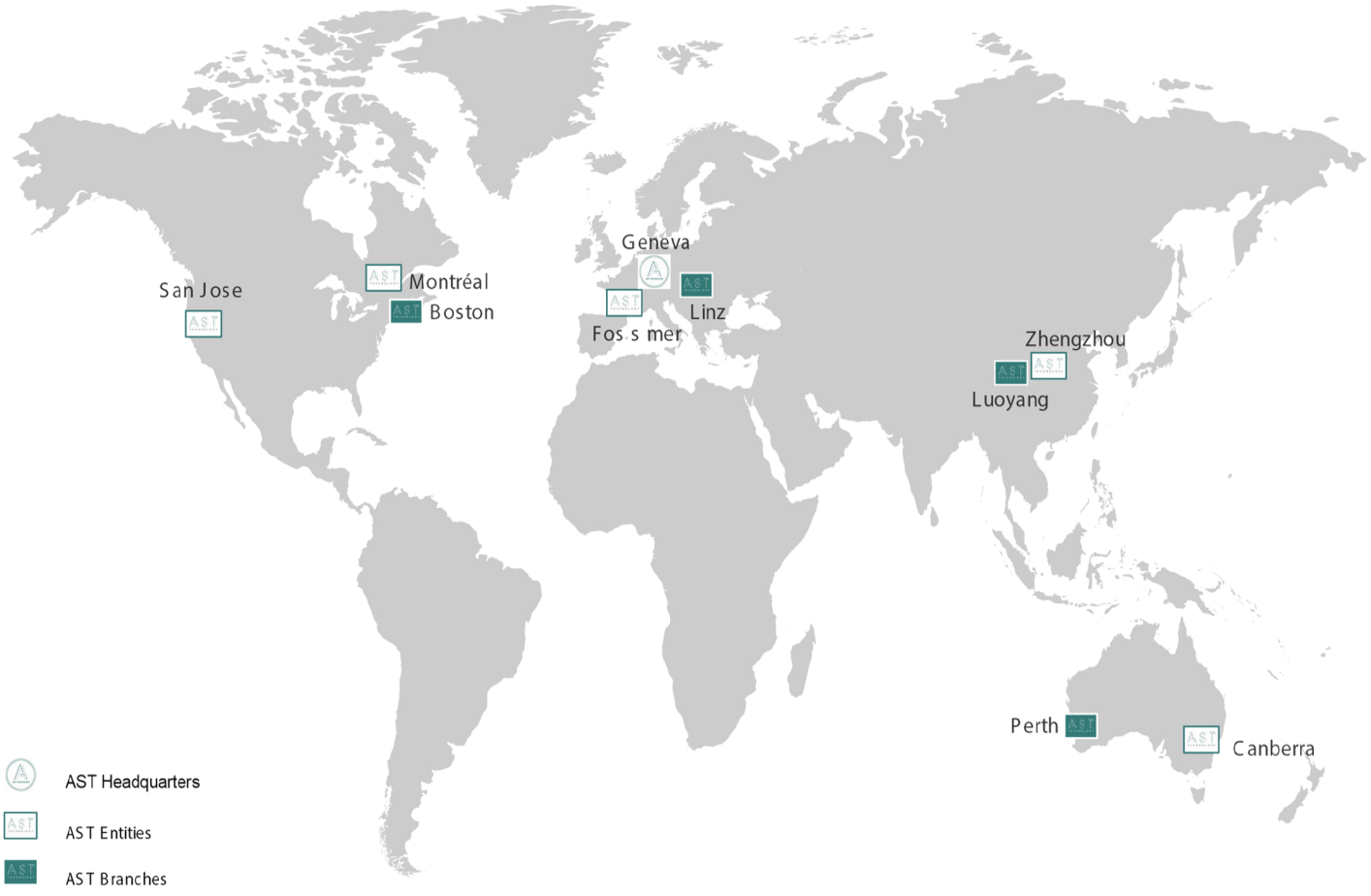
Improve public services and safety

- **Transportation**

Improve fleet management and customer service

- **Security and Defense**

Increase aircraft availability, reduce operational costs, and improve asset life



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