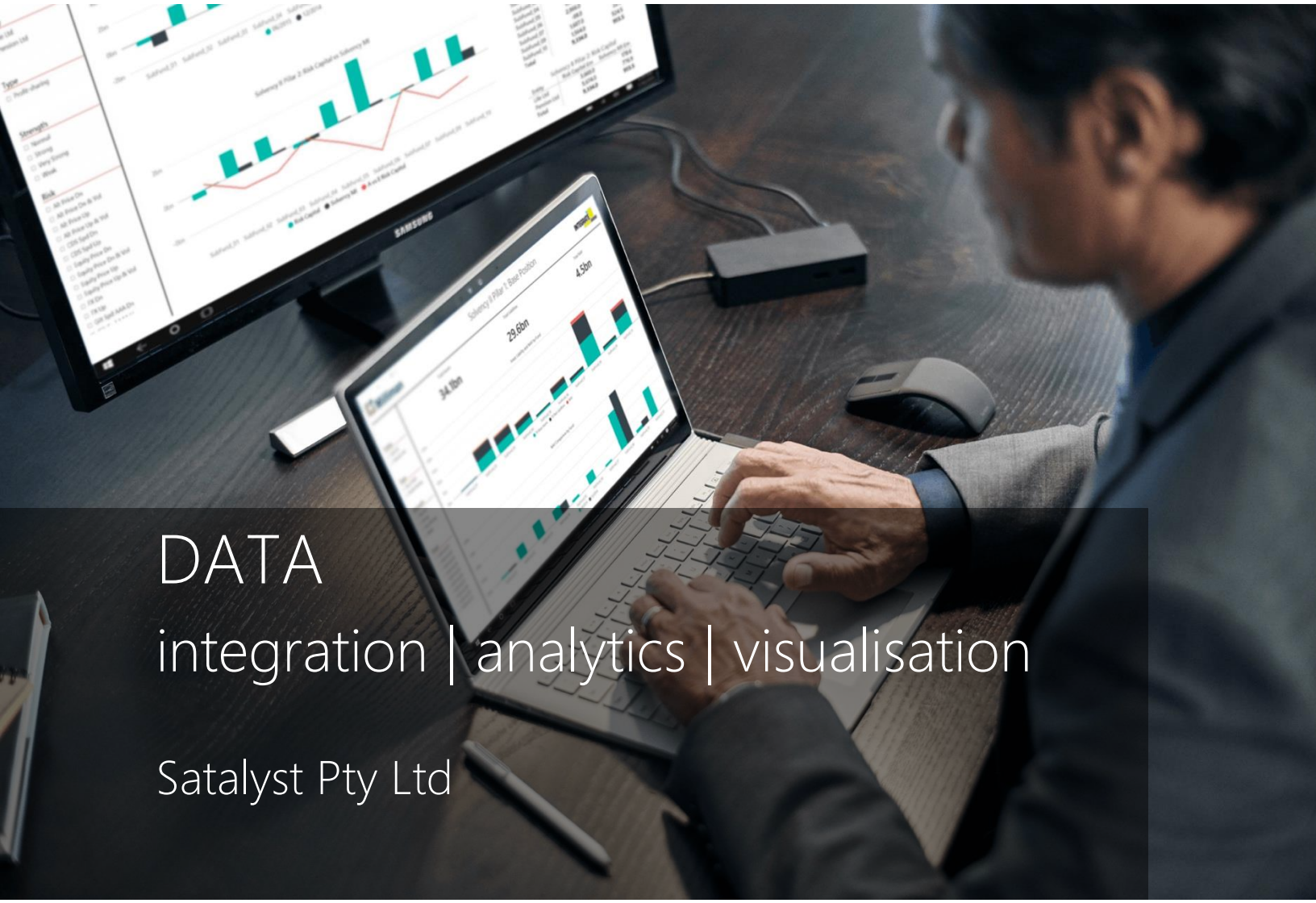
SATALYST®



DATA
integration | analytics | visualisation

Satalyst Pty Ltd

DATA FROM SENSORS TO BROADCAST VISUALISATION

About this capability | Pain points and benefits | References | Microsoft technology | About Satalyst

Microsoft Partner
Microsoft
Gold Data Analytics
Gold Cloud Platform
Silver Cloud Platform
Silver Cloud Productivity
Silver Data Platform

THE INCITE AWARDS
FINALIST
Most Disruptive Technology Award
25th WAITTA INCITE Awards
2015-2016 Finalist

MAPA 2016
Microsoft Australia Partner Awards
Celebrating Excellence
Finalist
Excellence in Cloud Platform

Location and biometrics reporting

integration | analytics | visualisation

Aggregation of data from wearables and sensors to report on biometrics and location of tracked subject for shared data visualisation or broadcast consumption.

Satalyst's purpose is to optimise data to deliver intelligent insight. We are a cloud-first digital transformation company specialising in Cloud, Data Analytics, Internet of Things (IoT), and Machine Learning. We have a specific capability and experience in collecting data in real-time from multiple sources using advanced cloud and data analytic tools to report on current location and performance statistics of the asset and/or individual being monitored.

- Data aggregation from multiple sensors and devices
- Integration with any open architecture device
- Data ingestion via internet enabled gateway
- Data stored and process in the cloud
- Advanced data analytics to produce insights
- Data insights dynamically published to web
- Customised visualisation and reporting dashboards
- API for data feed to television broadcast and other online media platforms
- Data in graphic visualisation for broadcast

Pain points and benefits

Pain points	Benefits
Remote access to data from individual devices Aggregating data from multiple devices Storing and processing large amounts of data	Data collected in an unobtrusive way through integration with an "off-person" gateway that has been paired with the wearable or device. Data is ingested via internet connection to secure and highly scalable cloud storage in real-time or data transmission can take place as and when internet connection is available.
Tracking location	Location data from GPS or proximity beacons is integrated and processed with other data sources.
Real-time data insights for broadcasters	API can be called to retrieve data that has been collected to feed into graphics engine for broadcast. Data can be collected and processed in real-time or by hour, day, week, month, and year.
Turning large volumes of data into actionable insight	Existing business data can be incorporated to provide a multidimensional insight into what is affecting performance. Predictive analytics can also be applied for scenario planning and dashboard reporting presents insights in an easy to use format.

References

Awards:

Finalists 2016 Australian Microsoft Partner Awards

Finalists 2016 WA Information Technology and Telecommunications Alliance (WAITTA) Incite awards.

Technology has been successfully deployed:

2015 Tour of Margaret River – tracking cyclists and providing location and performance data to shared web interface.

2016 Santos Tour Down Under – tracking Team Drapac and provision of data to television broadcaster and online media.

2016 The Variety Cycle 2000km ride – tracking selected cyclists and providing location and performance data to shared web interface.

2016 Haute Route Pyrenees – tracking selected cyclists and providing location and performance data to shared web interface.

2016 Adelaide Fashion Festival – tracking visitor numbers, location and movements during fashion show events.

2016 Tour of Margaret River – tracking cyclists and providing location and performance data to shared web interface and live statistics to race commentators.

2017 Santos Tour Down Under – tracking Uni SA professional cycling team, tracking race control vehicles, and provision of data to television broadcaster and online media.

2017 Santos Tour Down Under - tracking visitor numbers, location and movements at the TDU village

2017 Australian Taste Festival - tracking visitor numbers, location and movements at the Adelaide Town Square

Microsoft technology

Azure IoT platform is used to securely ingest data and stream process the data in real-time. Azure Cache provides temporary storage with fast access during processing and Azure SQL provides long-term storage of all data ingested and created. Data output is presented on Azure websites for presentation on any internet enabled device. Power BI can be used for data visualisation and creation of reporting dashboards.

About Satalyst

Satalyst is a cloud-first digital transformation company leveraging Microsoft and open source technology to build, integrate and support solutions. Satalyst divides its business into three areas: Professional Services, Products and IP, and Managed Services. Its core offerings are cloud, advanced analytics, IoT, and machine learning. Major capabilities include Azure, .net and Java development, systems integration, integration with open source technologies, business intelligence, Office 365, Dynamics CRM, and business consulting.

Satalyst is based in Western Australia and has a local hardware partner and off-shore development capability in Vietnam. Satalyst's management team are all seasoned professionals with over 20 years' experience in their related fields and experience living and working in Europe and Asia selling, developing or delivering software and hardware solutions. Satalyst's Chief Technology Officer has been in software development for over 20 years in the UK and Australia and is an Azure MVP and runs the Microsoft cloud computing user group in Perth.

Supporting content

Related *customer-ready* resources

- Case study: IoT Satalyst Tracker
- Media release: Perth's Satalyst helping to digitally shape future tourism in South Australia
- Blog post: Satalyst test Tracker at Tour Down Under
- Microsoft News Room: Azure IoT Suite shortens the tyranny of distance for race spectators
- Video: Microsoft case study - Satalyst Tracker
- Video: Satalyst Tracker TDU 2016 with Robbie McEwen

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