INFRASIX

MAKING DATA MEANINGFUL

WE SPECIALIZE IN ENGINEERING-BASED DATA ANALYTICS AND DEVELOPMENT OF CUSTOM SOFTWARE PRODUCTS

- Proprietary Artificial Intelligence, Machine Learning, Computer Vision
- Multispectral Data Processing: HD Images, Thermography, LiDAR
- Data: Satellite, Drone, Aircraft, Vehicle, Sensors/Robotics, Database
- INFRAVIEU – Our Proprietary Data Analytics & Visualization Platform
- App Development – Android, iOS and Web

We Collect, Analyze and Visualize your Data!

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MACHINE LEARNING & DATA ANALYTICS AUTOMATION COMPANY

A high-tech team of:

- Computer scientists, Software, Systems, Aerospace & Mechanical engineers

A note about how we work with clients:

- Project Based
- Milestones
- On-Time and On-Budget

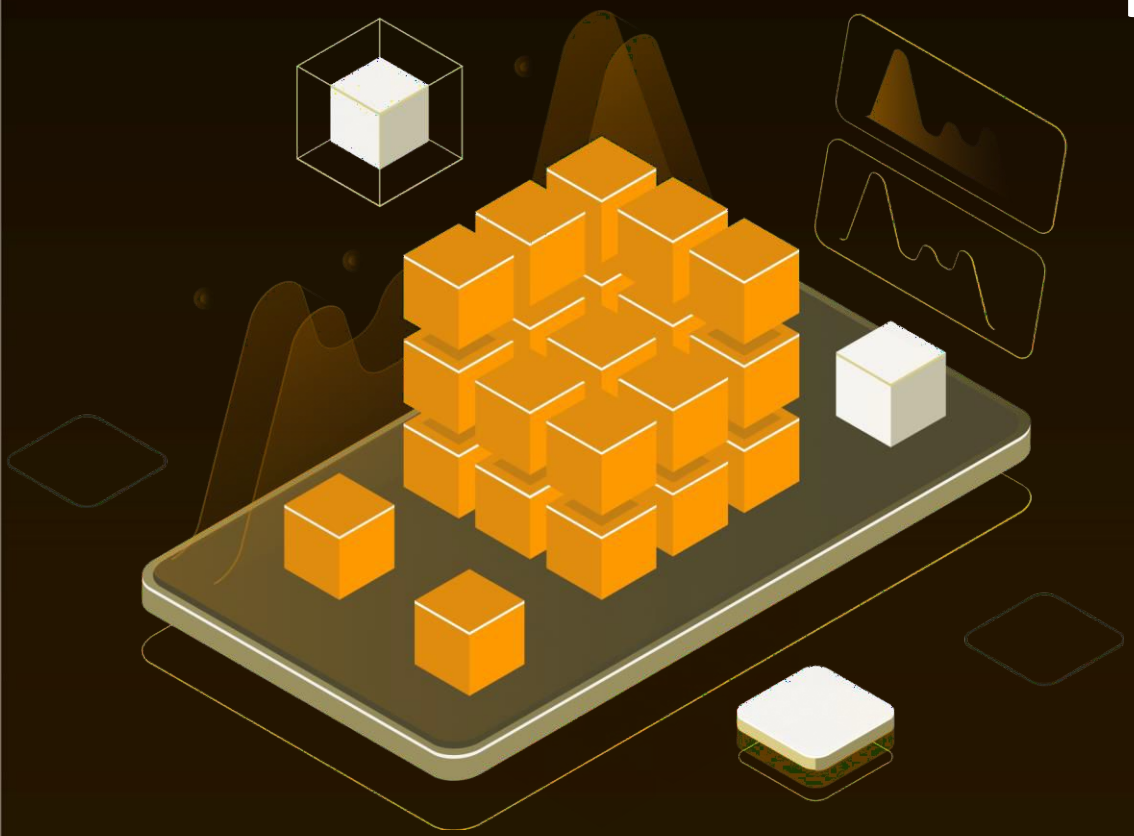
Platform Overview and Capabilities

InfraVIEU

- Advanced Data Visualization Dashboard
- Engineering Data Manipulation Tools
- Custom AI & ML based Data Analytics
- View & Manipulate Data: HD, Thermal and LiDAR
- Clients may license, white-label or subscribe to InfraVIEU
- Cross Platform Application
- Currently being used by Fortune 500 Companies

INFRAVIEU

Our Proprietary Data Analytics and Visualization Platform



Key Features

- 3D Annotation tool
- 3D Distance, Area & Volumetric Measurement Tool
- Orthomosaic Map View – HD, Thermal & Digital Elevation Models
- InfraVIEU Thermal Viewer
- Image Comparison Tool/Change Detection
- Augmented Reality Models On 3D Map
- Fully Automated Back-End Data Processing on Cloud Servers

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Machine learning & AI algorithms

At InfraSix, we use proprietary algorithms for:

- Analyzing massive amounts of data
- Building & Structure Classification
- Automated measurements of structures & land
- Mapping and Surveying
- Change Detection and Monitoring

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Automated defect & anomaly detection

- Proprietary Machine Learning
- Use inspection data to identify defects/anomalies
- Custom models based on client needs

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When to Utilize Machine Learning

We Make Data Meaningful

Consistency and Quality Needed

Repetitive and Manual Processes

> *“ In the past 2 years, more data has been created than in the entire history of mankind.*
>
> *ML enables us to make sense of all of this data. ”*

Too Much Data

Otherwise Unavailable

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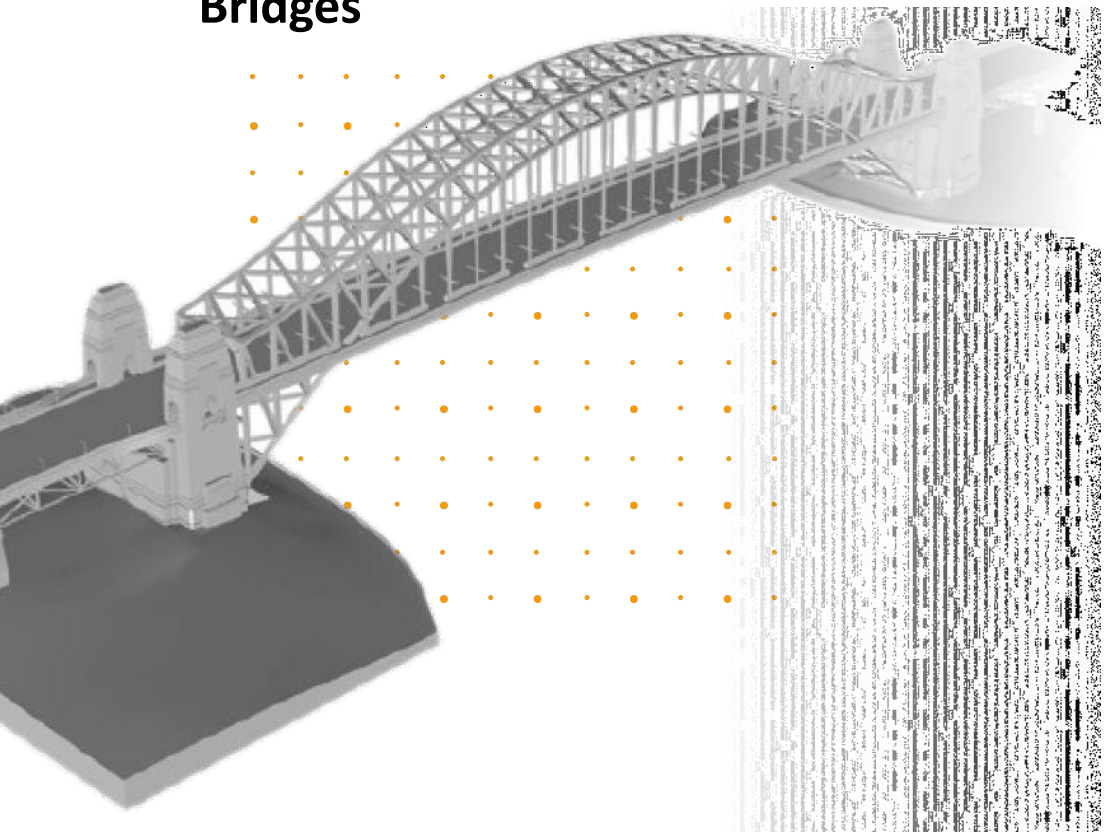
Infrastructure Service Examples

Utilizing data from satellites, aircraft, drones, vehicles, hand-held
Data formats including: HD, 3D, Thermography, LiDAR and more!

Bridges



Bridge Inspection

- Damage/defect detection and rating
- Analysis of bridge structural components

  Initial documentation and ongoing change detection for: corrosion, stress, tolerances, heat output, defects and other indicators
- Analysis of damage after situations including earthquakes, fires, hurricanes, other
- Obstruction detection and analysis
- Automated report generation

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Infrastructure Service Examples

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Bridge Construction & Planning

- Topography mapping and dimensioning
- Volumetric measurement for earth moving, cut and fill
- Construction monitoring
- Change detection
- HD, Thermography and LiDAR

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Infrastructure Service Examples

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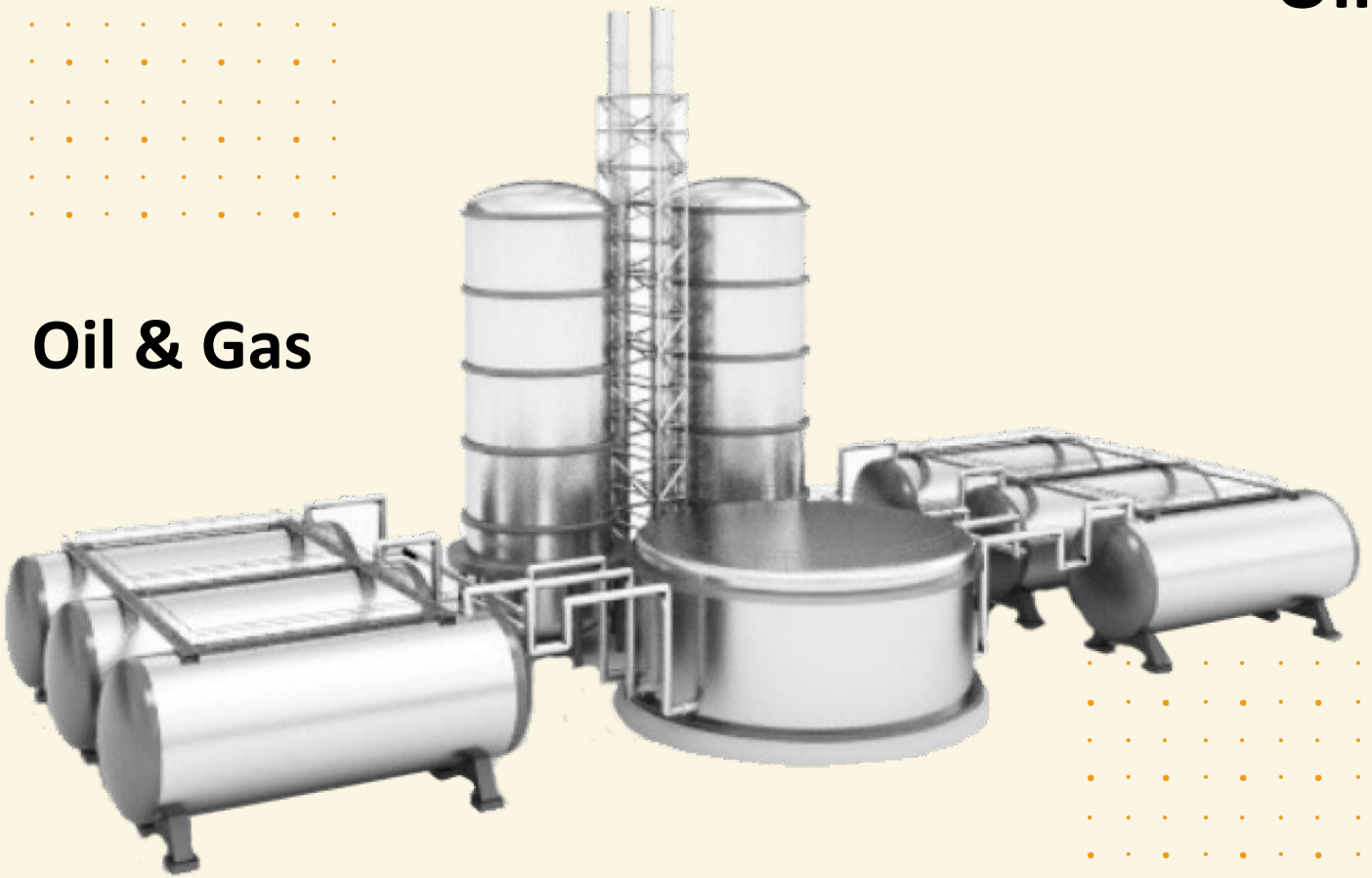
Oil & Gas



Oil & Gas Inspection

- Sensor Monitoring and Alerts for:
  - Storage facilities
  - Refinery facilities
  - Pipelines
    Harmful gasses (H2S, others)
  - IoT sensors (Internet of Things)
  - Security
- Defect & anomaly detection

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Infrastructure Service Examples

Utilizing data from satellites, aircraft, drones, vehicles, hand-held
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Oil & Gas Construction

- Topography and distance mapping
- Pipeline route obstruction detection,

  itemization and geotagging
  Route planning, volumetric
- measurements Construction monitoring
- Change detection

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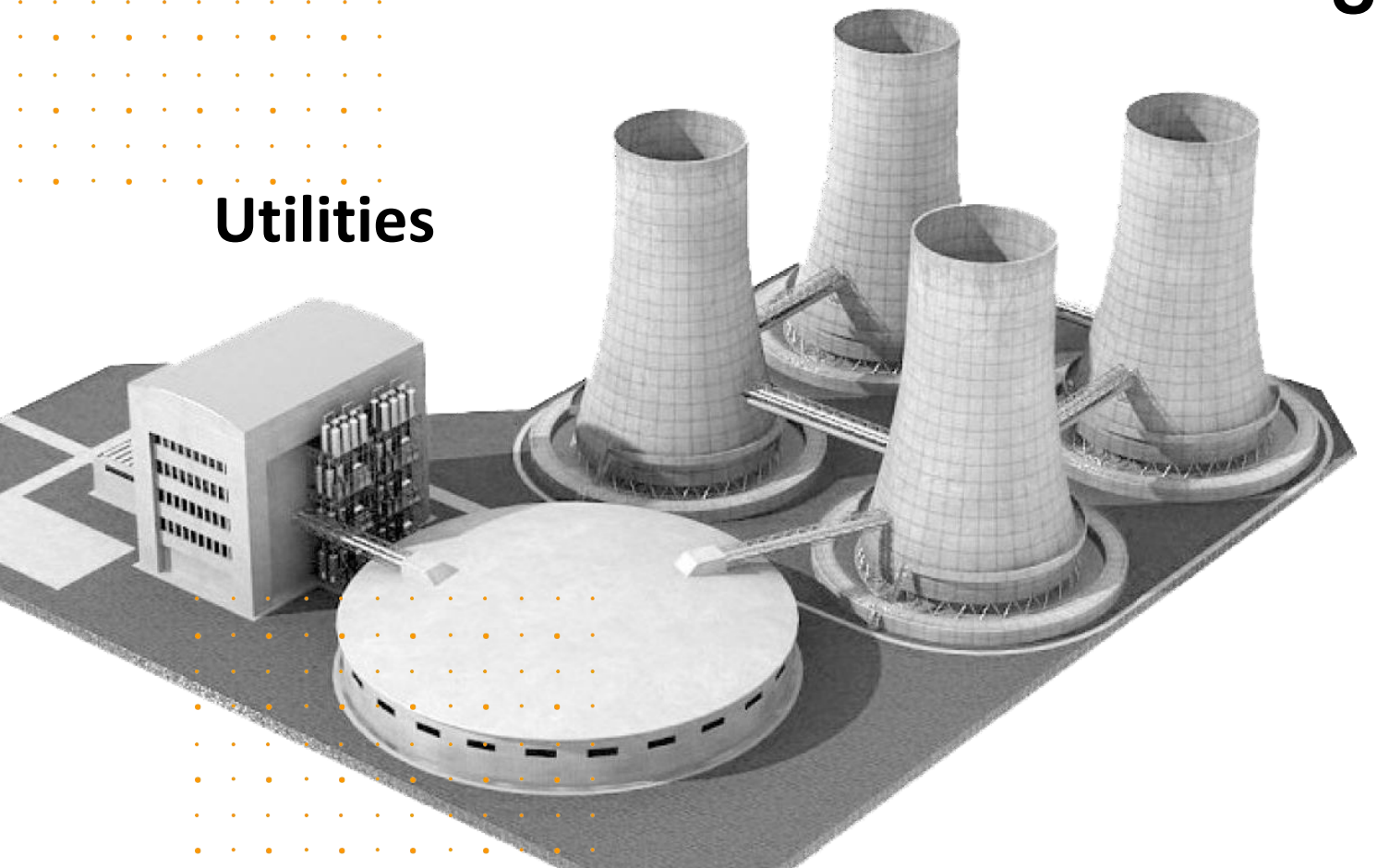
Utilities



Utility Inspections

- Automated sensor monitoring and alerts
- Water, pipelines, treatment facilities
- Power lines, poles, line sag
- Power stations
- 3D mapping & Building Information Models (BIM)

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Infrastructure Service Examples

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Utility Applications

- Powerline scanning for vegetation
- Tower/Pole/Component classification & defect identification
- Make-ready engineering for utility pole additions such as new lines or antennas for power, cable, phone, cell transmission (5g)
- Mapping of pole ownership by city/town/utility
- Smart City - weather derived electricity and water demand prediction

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Infrastructure Service Examples

Utilizing data from satellites, aircraft, drones, vehicles, hand-held
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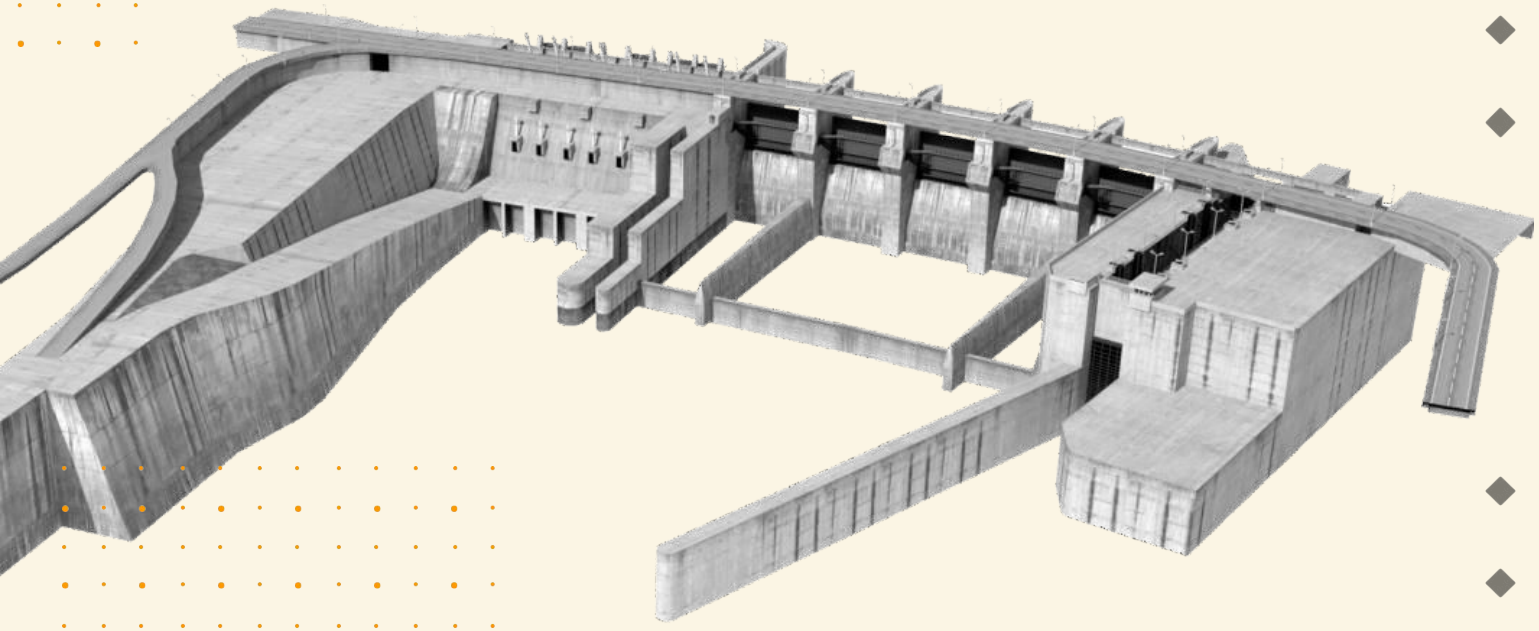
Water & Dam



Water & Dam Inspections

- Automated sensor monitoring and alerts
- Inspection of dams:
  - Concrete cracks
  - Flow
  - Change detection
- Damage & defect detection
  Wetland identification
- Runoff detection

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Infrastructure Service Examples

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Water & Dam Construction

- Topography and distance mapping
  Volumetric measurements
- Digital elevation for water basin
- Construction monitoring

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Infrastructure Service Examples

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Additional Services - Machine Learning Examples

Inspections

- Automated sensor monitoring and alerts
- Defect/anomaly detection and rating
- Change detection
- Automated report generation

Construction

- Topography and dimensioning
- Digital elevations
- Volumetric measurements
- Construction monitoring
- Change detection

Applications

- Airports
- Railroads
- Marine ports
- Municipalities
- Critical Infrastructure
- Nuclear Reactors
- Military installations
- Highways & Roads
- And more

NEXT STEPS

- Introduction to **InfraLytiks** – Our Technical Team
- Review of Relevant Case Studies
- Technical Q&A
- Discussion of Potential Applications

Reach out to us at:

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