CF.Cumulus ™

An open-source cloud data platform
product to accelerate time to insights.
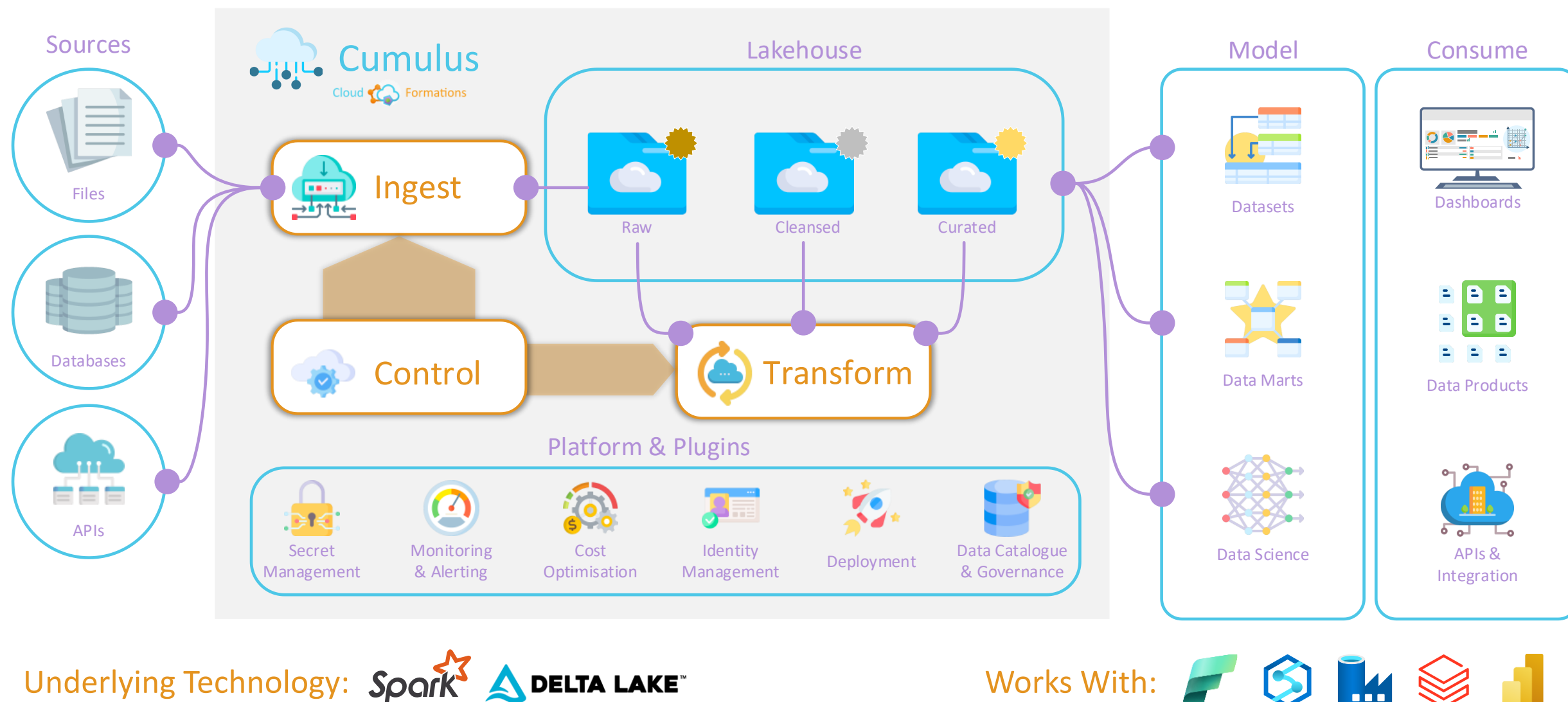
Cloud Formations

CF.Cumulus Framework

Cloud Formations - Logical Architecture

- **Open Source*:**
  Zero cost, unlimited access to code
- **Scalable:**
  Horizontal & vertical scaling for Big Data executions
- **Cost-Efficient:**
  Faster time-to-insight reduces delivery costs
- **Extensible:**
  Supports complex & unique data handling
- **Collaborative:**
  Brings development & operations together
- **Rapid Development:**
  Accelerates data solution implementation
- **Proven Framework:**
  Adopted and used with 100+ repository forks
- **Transparent & Trustworthy:**
  Tried & tested patterns using mature technologies

Sources
- Files
- Databases
- APIs

Cumulus
Cloud Formations

Ingest

Control

Transform

Lakehouse
- Raw
- Cleansed
- Curated

Platform & Plugins
- Secret Management
- Monitoring & Alerting
- Cost Optimisation
- Identity Management
- Deployment
- Data Catalogue & Governance

Underlying Technology: Spark   DELTA LAKE™

Model
- Datasets
- Data Marts
- Data Science

Consume
- Dashboards
- Data Products
- APIs & Integration

Works With:

Control
- <u>Metadata-driven</u> workflow orchestration
- Managed dependency chains
- Concurrent batch processing
- Multi-threaded execution
- Resilient exception handling
- Enterprise grade reliability

Ingest
- <u>Metadata-driven</u> data ingestion
- Adaptable to all scenarios
- Extensible data sources & formats
- Flexible operating modes:
  - Deploy-time code gen
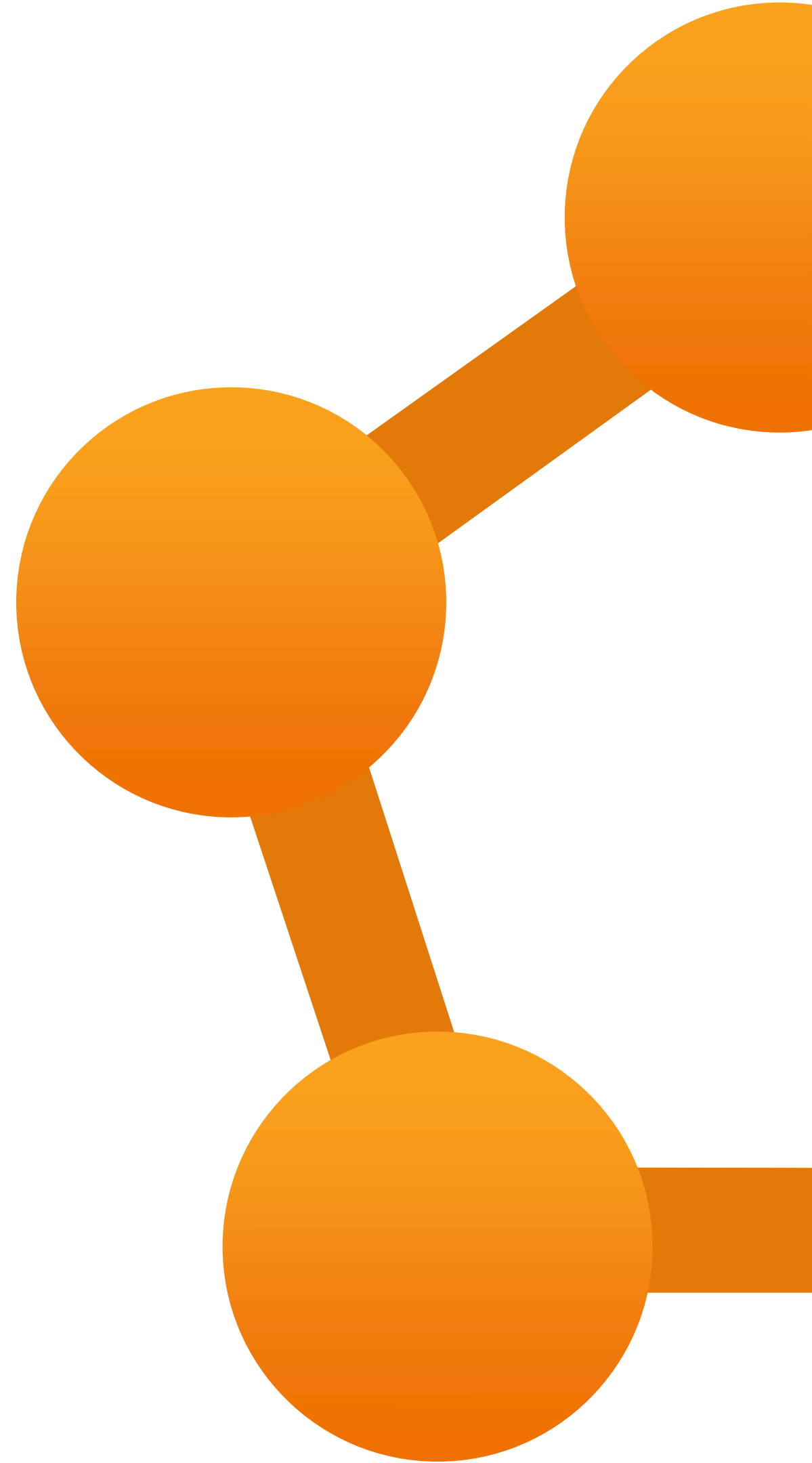 - Run-time code gen†

Transform
- <u>Metadata-driven</u> data transformation
- Rapid engineering of common transformations
- Scalable data processing
- Baked in support for dimensional models
- Supports AI & Machine Learning model inference
- Complete flexibility through custom notebooks
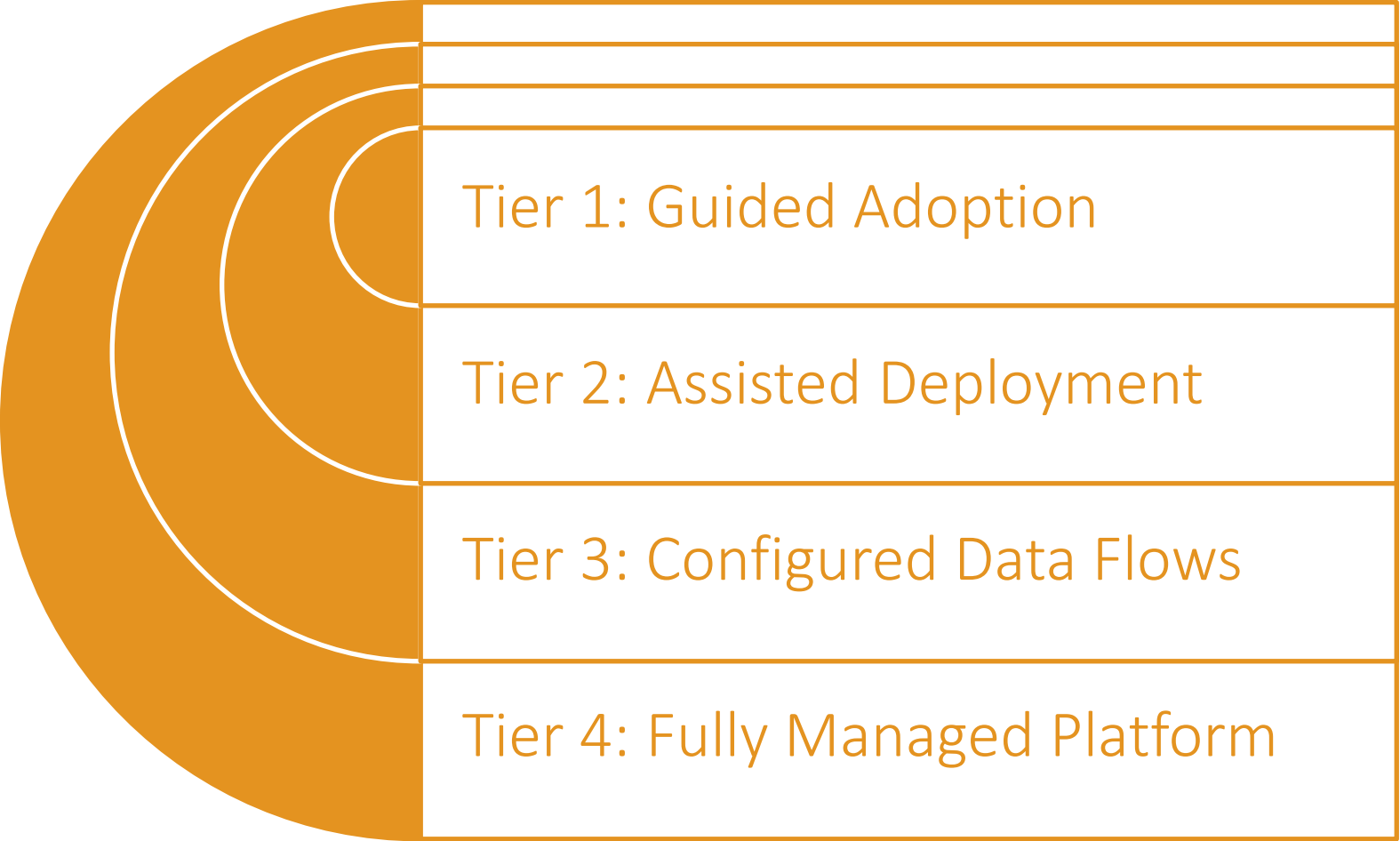
* In accordance with MIT licencing.
† Coming soon.

Engagement Options

Cloud Formations

CF.Cumulus: Flexible Tiers of Engagement

Unlock the full potential of the **CF.Cumulus** at your own pace. Whether you're looking to deploy and manage it yourself, or prefer a fully managed service, we have the right level of support for you.

Tier 1: Guided Adoption

Tier 2: Assisted Deployment

Tier 3: Configured Data Flows
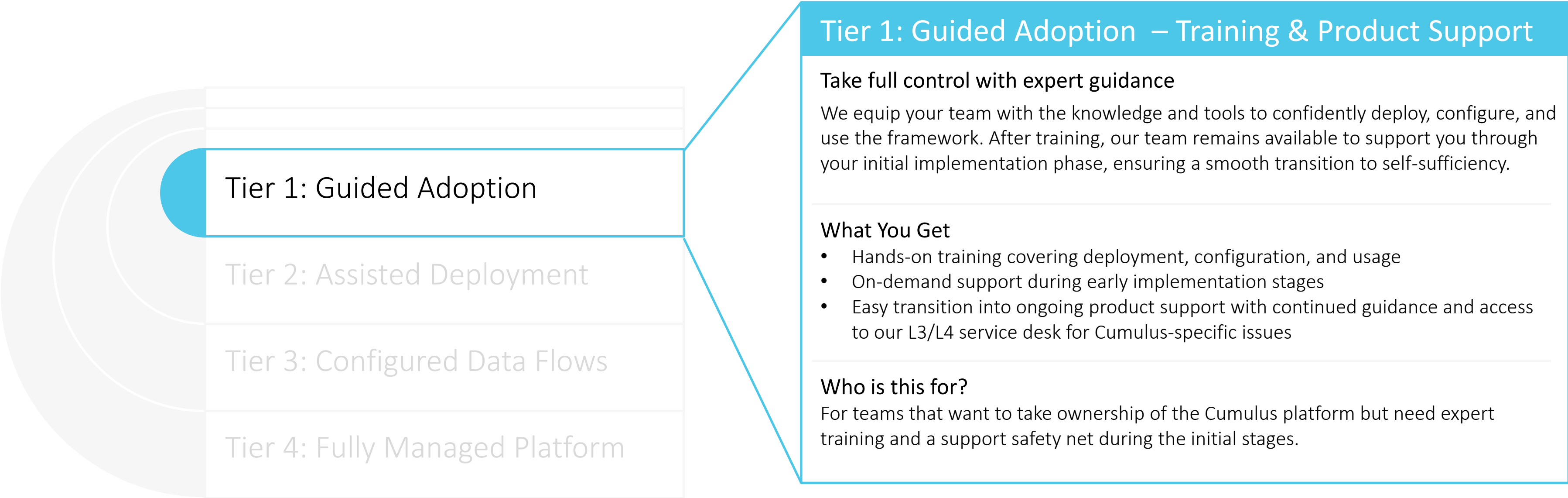
Tier 4: Fully Managed Platform

Cumulus is now available as an open-source framework, allowing businesses to leverage cutting-edge data orchestration technology without license fees. However, the real value comes from partnering with us to ensure a successful deployment. Our decades of experience in building scalable, resilient data platforms will ensure that you extract the maximum value from your data.

Open-Source Flexibility, Professional Expertise

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Tier 4: Fully Managed Platform

Tier 1: Guided Adoption – Training & Product Support

Take full control with expert guidance

We equip your team with the knowledge and tools to confidently deploy, configure, and use the framework. After training, our team remains available to support you through your initial implementation phase, ensuring a smooth transition to self-sufficiency.

What You Get
- Hands-on training covering deployment, configuration, and usage
- On-demand support during early implementation stages
- Easy transition into ongoing product support with continued guidance and access to our L3/L4 service desk for Cumulus-specific issues

Who is this for?
For teams that want to take ownership of the Cumulus platform but need expert training and a support safety net during the initial stages.

Open-Source Flexibility, Professional Expertise

Cloud Formations
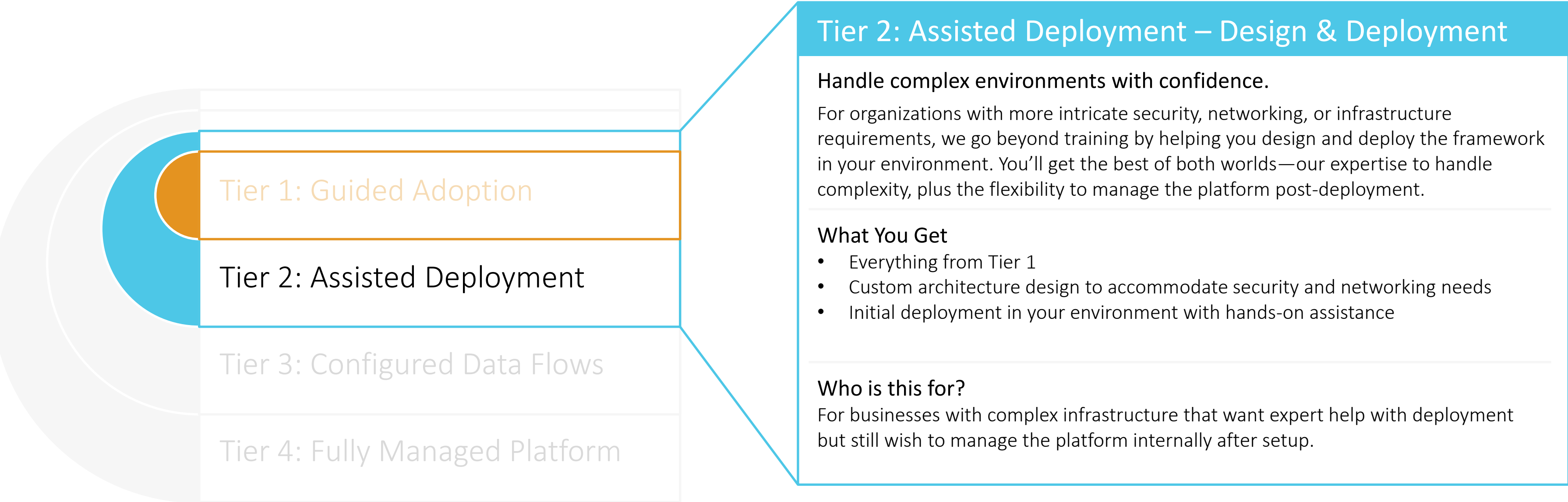
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Tier 2: Assisted Deployment – Design & Deployment

Handle complex environments with confidence.

For organizations with more intricate security, networking, or infrastructure requirements, we go beyond training by helping you design and deploy the framework in your environment. You'll get the best of both worlds—our expertise to handle complexity, plus the flexibility to manage the platform post-deployment.

What You Get
- Everything from Tier 1
- Custom architecture design to accommodate security and networking needs
- Initial deployment in your environment with hands-on assistance

Who is this for?
For businesses with complex infrastructure that want expert help with deployment but still wish to manage the platform internally after setup.

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Tier 3: Configured Data Flows – Initial Configuration

Jumpstart your data workflows.

In addition to deployment, we take the complexity out of configuring data flows and transformations. We'll handle the setup of key workflows, ensuring your platform is ready to generate insights from day one. This tier is perfect for businesses that need a fully operational data solution from the outset.

What You Get
- Everything from Tier 2
- Full configuration of data ingestion and transformations based on your data sources and business needs
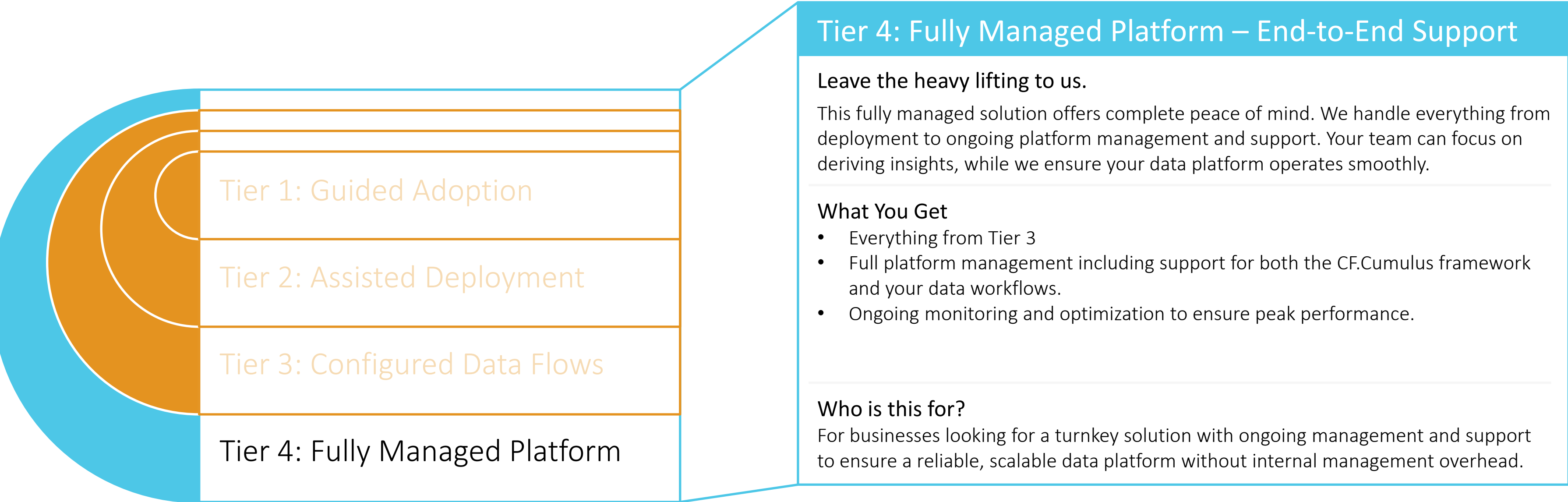- Scaled pricing depending on the number of data sources and transformations

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Tier 3: Configured Data Flows

Tier 4: Fully Managed Platform

Tier 4: Fully Managed Platform – End-to-End Support

Leave the heavy lifting to us.

This fully managed solution offers complete peace of mind. We handle everything from deployment to ongoing platform management and support. Your team can focus on deriving insights, while we ensure your data platform operates smoothly.

What You Get
- Everything from Tier 3
- Full platform management including support for both the CF.Cumulus framework and your data workflows.
- Ongoing monitoring and optimization to ensure peak performance.

Who is this for?
For businesses looking for a turnkey solution with ongoing management and support to ensure a reliable, scalable data platform without internal management overhead.

Open-Source Flexibility, Professional Expertise

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Contact Us

🌐 https://cloudformations.org

✉️ contactus@cloudformations.org

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