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## The Hyperconnected Digital Fabric

Multiplying Value Creation Through Digital Businesses and Digital Ecosystems

Linus Lai VP Digital Business, Trust, Services and Chief Analyst ANZ

## **Navigating the Storms of Disruption**



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My view is that the CIO's role is to create and orchestrate an environment that enables the technology team to shine and to bring the transformative power of digital technologies to life in the organization. When they shine, they have the confidence and competence to deliver more projects and initiatives – so the rate of innovation increases.



Dr Steve Hodgkinson CDO, Victoria Police

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## **The Big Tech Flip**

Learn from the Past to Analyze the Future







**Fungible to Non-Fungible:** 

- Zero data trust
- Real-time reconciliation
- Persistent experiences

**30 Years** 

## **5** Years

## 2022 and beyond



Network Flip



Engagement Flip



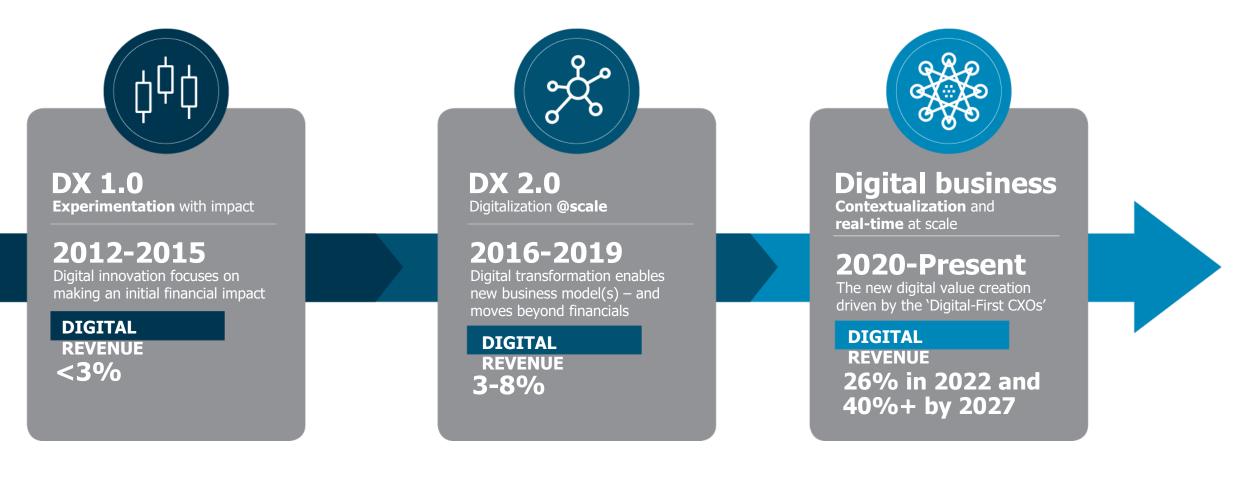
Industry Flip

## Tech for Business to Tech to Compete:

- Tech dependent supply chain
- Autonomic control systems
- As-a-service business models



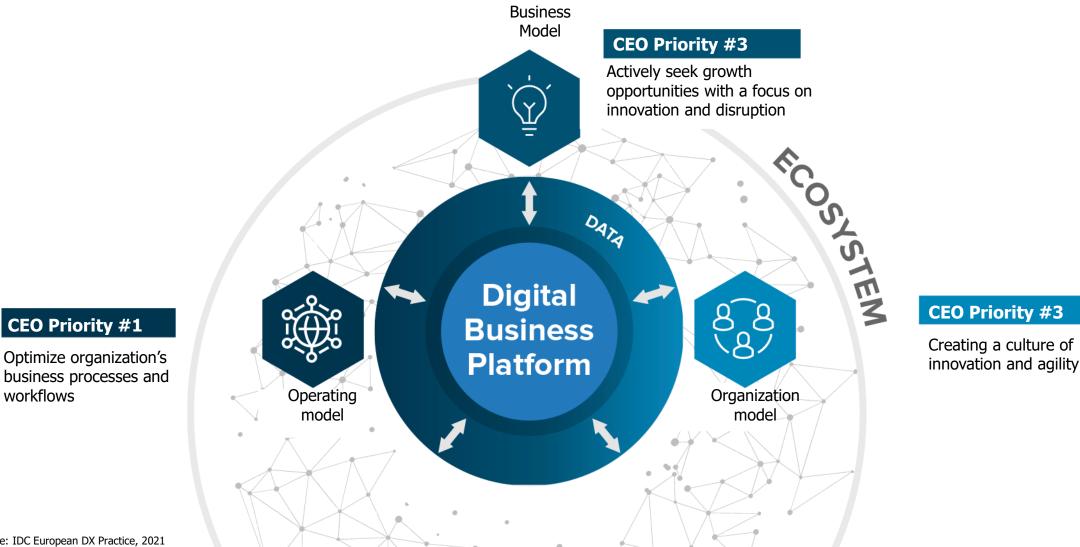
# A New Digital Era: From Digital Transformation (DX) to Digital Business



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## Value Creation Within the Digital Business Fabric



Source: IDC European DX Practice, 2021

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workflows



## **Industry Strategic Priorities**



## **Connected Banking**

- Connected corporate banking
- Digital lending
- Digital trust and stewardship
- Efficiency and agility
- External ecosystem
- Next-gen payments
- Omni customer engagement



## **Agile Mining Ops**

- Agile integrated ops
- Connected assets
- Digital exploration
- Next-gen safety/sustainability



### Contextual and Value-Centric Insurance

- Cognitive Competencies
- Frictionless insurance

**Aaile Enerav** 

Connected assets

Digital upstream

• Next-gen safety

Digital refining

- Omni-Experience Engagement
- Usage- and value-oriented offerings



## Value-Based Health

- Convenient access to care
- Customer centricity
- Financial and clinical risk mgmt.

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**Experiential Retail** 

• Digital supply-chain

• Omni-channel commerce

• Omni customer engagement

Operational scale and agility

mgmt.

optimization

• Curated merchandise life-cvcle

• Operationalizing data and information



### Transformative Academia

- Campus of the Future
- Faculty empowerment
  Funding and partnership enhancement
- Lifelong student engagement
- Next-gen administration
- Optimized student health



### Experiential Hospitality, Dining and Travel

- Connected journey/experience
- Digital customer engagement
- Digital supply-chain optimization
- Omni-channel
- ordering/distribution
- Operational scale/agility



## Effective National Government

- Data-driven services
- Economic dev., int'l relationships and civic engagement
- Intelligent transportation
- Modernized security/justice
- Revenue/monetary mgmt.
- Sustainable energy/resources



### Manufacturing

- Digital supply chain
- Smart manufacturing
- Omni consumer engagement
- Connected customer engagement
- Innovation acceleration
- Product-as-a-platform
- Digital channels

Source: IDC DX Use Cases 2023



## **Example: Digital Retail**

### Operational execution Connected Workforce Profitability Optimization Touchless IT Operations

- Mobile inventory information management
- Mobile task management Mobile customer
- engagement
- Mobile commerce

- Sustainable Digitized workforce management environment
- Empowered worker management Augmented knowledge • Asset management
  - Physical safety and risk
- Robotic workforce management Digital sales training • Venue portfolio
  - Revenue/margin optimization audit and exception analytics
  - management

### **Operational execution Optimized Fulfillment** Operations

worker

and execution

- Dynamic supply network management
- Supply forecasting and planning
- Collaborative product design and duty forecast
- On-demand supply chain/PCaaS
- simulation

Traceability

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- Smart financial supply chain
- Supply chain safety and compliance
- Sustainability reporting / marketing

Source: IDC DX Use Cases 2023

- orchestration Advanced tech augmented
  - Optimized operations
- Advanced enterprise reverse
- logistics execution

### Supply Chain Accountability Last-Mile Operations Execution

- Click-and-collect optimization
- Last-mile same-day delivery optimization
- Fulfill-from-store space and
  - packaging optimization
- Inventory locating



- Optimized customer relationship/loyalty programs
  - Omnichannel customer

### **Experiential Commerce** Intelligent Order

- Commerce services Digital content
- management
- Cashierless checkout
- Headless commerce
- Onni-Channel Commerce Next-generation Buy now pay later

### Augmented and Virtual Experience

- Virtual and augmented engagement
- Digitally connected product experiences
- Augmented and virtual product discovery
- Live streaming product discovery and purchase

Product

Innovation

marketplaces

management

Digital product life-cvcle

### Intelligent **Product Design**

- 3D product design and review
- Crowdsourced ideation . and innovation
- Sustainable product
- life-cvcle desian
- **Curated Product** Assortment and

•

**Fulfillment and** 

Omni-channel order

orchestration and

Real-time inventory

Returns

fulfillment

management

## Positioning

- Assortment
  - Life-cycle pricing
  - Collaborative analytics
- for merchandising and marketing
- B2B networks/ optimization Sentiment analysis
- optimization
- Global product requirements compliance fulfillment as a product management

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support Social marketing 360-degree connected customer data management

Analytics

Process optimization

Digital transformation

and modernization

Connectivity

services

Operc

Digital Supply Chain Optimization

infrastructure

- Customer experience and behavior analytics
- Digital content optimization ٠

**Customer Experience** 

Customer experience process management

**Omni-Experience** 

Customer Engagement

### Contextualized Experience

rated Merchandise Cycle Management

- Contextualized marketing
  - Optimized promotion development and distribution
  - Omni-channel marketing and advertising
- Intelligent mktg. analytics for measurement and insiaht

**The Hyperconnected Digital Fabric** Smarter Technology Solutions for Better Business Outcomes

- Predictive network inventory
  - work

## **Example: Digital Retail**

- Mobile inventory information management
- Mobile task
- management Mobile customer
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- Digitized workforce Sustainable management environment
- Empowered worker management Augmented knowledge
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worker

Robotic workforce

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Digital sales training

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Source: IDC DX Use Cases 2023

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- Click-and-collect optimization
- Last-mile same-day delivery optimization
- Fulfill-from-store space and packaging optimization
- Inventory locating

  - Optimized customer relationship/loyalty programs
  - Omni-channel customer
  - Social marketing

- Process optimization
- Connectivity
- infrastructure
- Digital transformation and modernization
- services

Ope

- management

### **Optimized Fulfillment** Operations

- Predictive network inventory orchestration
- Advanced tech augmented work
  - Optimized operations
- Advanced enterprise reverse logistics execution

# gital Supply n Optimization Customer Engagement

- 360-degree connected customer data management
- Customer experience and behavior analytics •

**Omni-Experience** 

- Digital content optimization •
- Customer experience process management

### **Experiential Commerce** Intelligent Order

### Commerce services

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### Fulfillment and Returns

### Omni-channel order

- orchestration and fulfillment
- Real-time inventory
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### Intelligent **Product Design**

- 3D product design and review
- Crowdsourced ideation and innovation
- Sustainable product
- life-cycle design

.

### **Curated Product** Assortment and Positioning

### Assortment

- Sentiment analysis Life-cycle pricing
- Collaborative analytics
- marketing
- marketplaces Digital product life-cycle management Global product requirements compliance Fulfillment as a product

Product

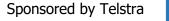
Innovation

B2B networks/

management for merchandising and

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### **The Hyperconnected Digital Fabric** Smarter Technology Solutions for Better Business Outcomes



Chain

Contextualized marketing

insight

# lerchandise hanagement

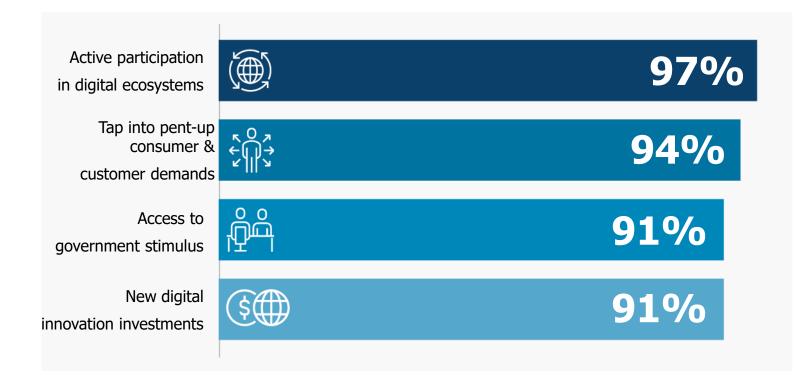


Optimized promotion development and distribution

Intelligent mktg. analytics for measurement and

Omni-channel marketing and advertising

## Digital-First CEOs Looking to Exploit Digital Ecosystem Opportunities





By the end of 2023, organizations that engage with their ecosystem partners will increase profitability by

## **5 percentage points**

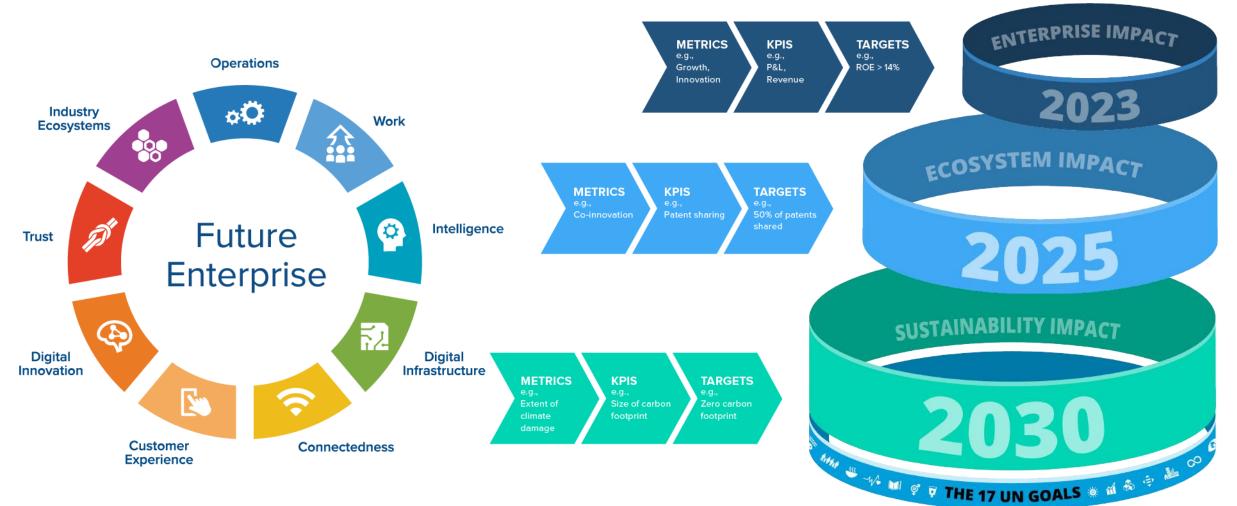
Source: CEO Sentiment Survey 2022 (ANZ n=32) and IDC FutureScape: Worldwide Future of Industry Ecosystems 2023 Predictions, Multi-select options - total will not sum to 100%

The Hyperconnected Digital Fabric Smarter Technology Solutions for Better Business Outcomes

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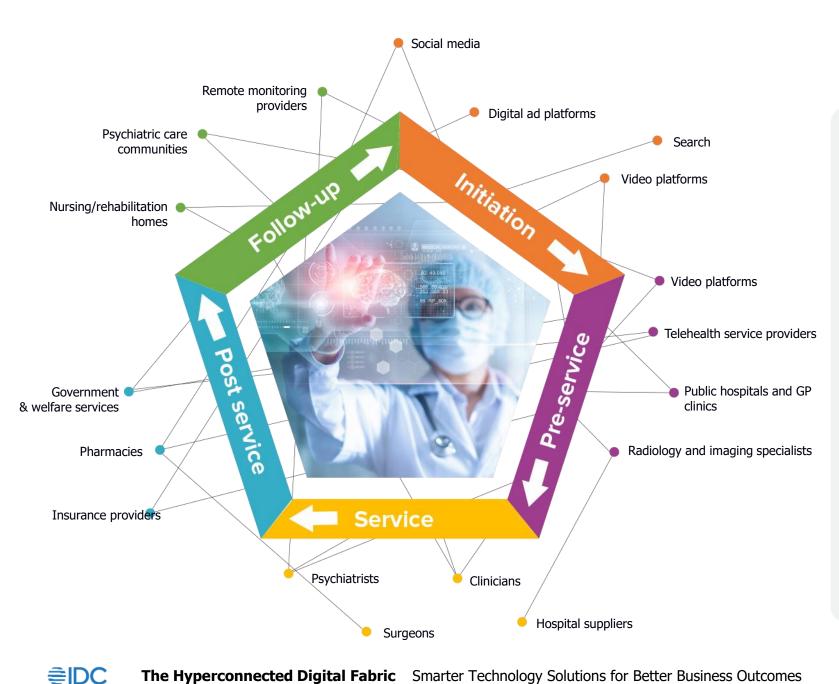
## **Redefining Business Value for the Digital-First Era**

**Introducing the IDC Future Enterprise Business Value Framework** 



Source: IDC Perspective: Redefining Value for the Digital-First World: Introducing the IDC Future Enterprise Value Framework https://www.idc.com/getdoc.jsp?containerId=AP47846921

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The platform is now configurable by organization, geographies, localization, regulatory jurisdictions and any health service specialization, anywhere in the world, effectively delivering a highly secure, compliant next-gen EMR that is fully scalable and can be augmented with the consumption of external services, such as radiology, pathology, AI, machine learning, mental well-being, counselling, financial, reporting, third-party products and services, and much more through the DCE's partner certification program soon to become DC2Vue's marketplace



Jorge Silveira **Chief Digital Health Officer Virtus Health** 

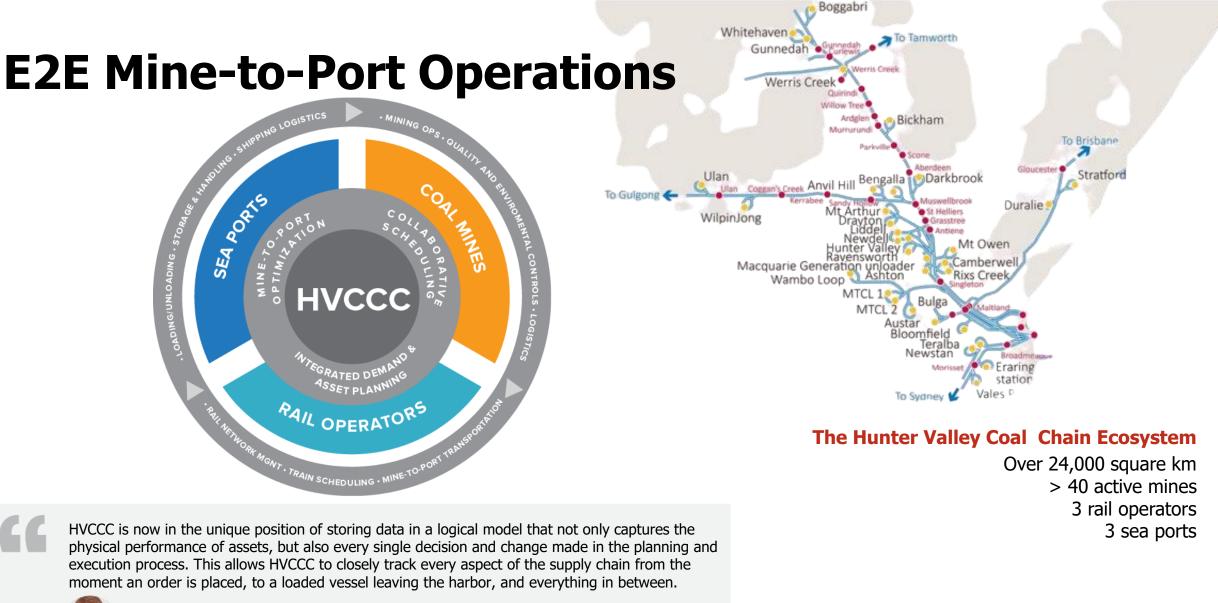
## Leading Metrics for a Business Value Scorecard - Success Metrics & KPIs



Source: Introducing the IDC Future Enterprise Value Framework, 2022

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Chris Seysener, CIO, Hunter Valley Coal Chain Coordinator

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## The Case for Hyperconnectivity

## **Multiple Clouds**



## **01** Workload Control Plane

## **Multiple Clouds**

- Optimize performance
- Provide flexibility
- IT resilience

## From Outsourcing to FinOps:

- Cloud economics
- Sourcing

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• Industry clouds

## **Multiple Applications**



02 Enterprise Control Plane

## **Business operations** resilience

- Economies of Intelligence
- Knowledge productivity
- Business operations resilience

## From Integration to Automation

- Data semantics
- Process autonomy
- Decision efficacy

## **Multiple Ecosystems**



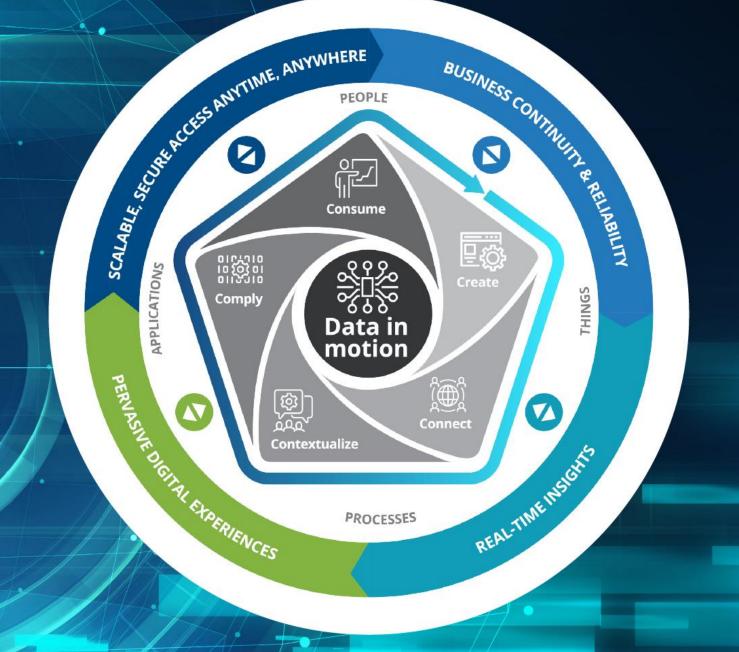
<sup>3</sup> Plane

# Industry value stream resilience

- Visibility for social responsibility
- Trusted virtual joint ventures
- Industry value stream resilience

From App Dev to Digital Engineering

- Software-base product innovation
- New business models
- Blockchain



## The Future of Connectedness

Connecting People, Processes, Applications, and Things with Data in Motion

## Conclusion

Every digital business is inherently connected and must develop *hyperconnectivity* 

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Organizations must develop capabilities in the *Future of Connectedness* 

> Organizations that exploit *digital ecosystems*

will increase profitability ahead of peers

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