



# Cities on the Edge

Presented during *Building Safer Cities*, a virtual conference hosted by Public Sector Network, Red Hat & Carahsoft

A screenshot of a presentation slide with a black background and white text. In the top right corner, there is a small "CONFIDENTIAL Designator" watermark. The slide features the Red Hat logo (a white hat icon and the text "Red Hat") in the top left. The main title "Cities on the Edge" is centered in a large, bold, white font. Below the title, the speaker's name and title are listed: "Francisco R. Ramirez, Managing Solution Architect, North America Public Sector". At the bottom of the slide, two lines of text are separated by red horizontal lines: "Virtual Building Safer Cities" on the left and "Thursday, May 13, 2021" on the right. A small white number "1" is visible in the bottom left corner of the slide area. The Red Hat logo is also present in the bottom right corner of the slide's frame.



# Cities on the Edge

Francisco R. Ramirez, Managing Solution Architect  
North America Public Sector

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Virtual Building Safer Cities

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Thursday, May 13, 2021



Raise

are



Empowerment of individuals is a key part of what makes open source work, since in the end, innovations tend to come from small groups, not from large, structured efforts.

**-Tim O'Reilly, founder of O'Reilly media**



To be the catalyst in communities of customers, contributors, and partners creating better technology the open source way.



## Release early and often

An iterative approach leads to better solutions faster

## Transparency

Allows us to build upon each other's ideas and discoveries, make more effective decisions and understand how decisions affect us

## Collaboration

Allows us to solve problems that no one can solve alone

## Meritocracy

Good ideas can come from anywhere, and the best ideas should win

## Community

Shared values guide decision making, and community goals supersede individual interests and agendas

# Just some of the challenges faced by

**cities**  
Air quality

**Food**

**Public transport**

**Business**

**Healthcare**

**Retail**

**Cycling**

**Homelessness**

**Safety & security**

**Commercial waste**

**Leisure**

**Social care**

**Communication**

**Light pollution**

**Traffic congestion**

**Domestic waste**

**Noise pollution**

**Walking**

**Education**

**Overcrowding**

**Waste water**

**Energy**

**Poverty**

**Water quality**

**Water supply**



AI

Machine learning 5G

Cloud-native Containers

Automation Security

Digital transformation

IT/OT Convergence Open source communities

Open organization

Kubernetes Hybrid cloud

DevOps

Innovation

# Business goals

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Data fueled innovation

Efficiency and speed



## Developer velocity

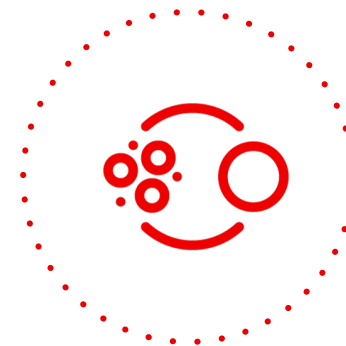
Put applications  
anywhere



Act with speed and agility  
and adapt to the needs of  
the business

## Operational agility

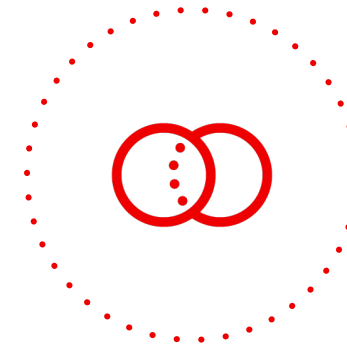
Eliminate operational  
challenges



Provide new solutions for a  
variety of distributed  
application environments

## Business innovation

Address new  
opportunities



Drive innovation, increase  
productivity, and offer better  
products and services

## The complexities of edge computing



### Scale

Need to manage up to hundreds of thousands nodes and clusters remotely



### Interoperability

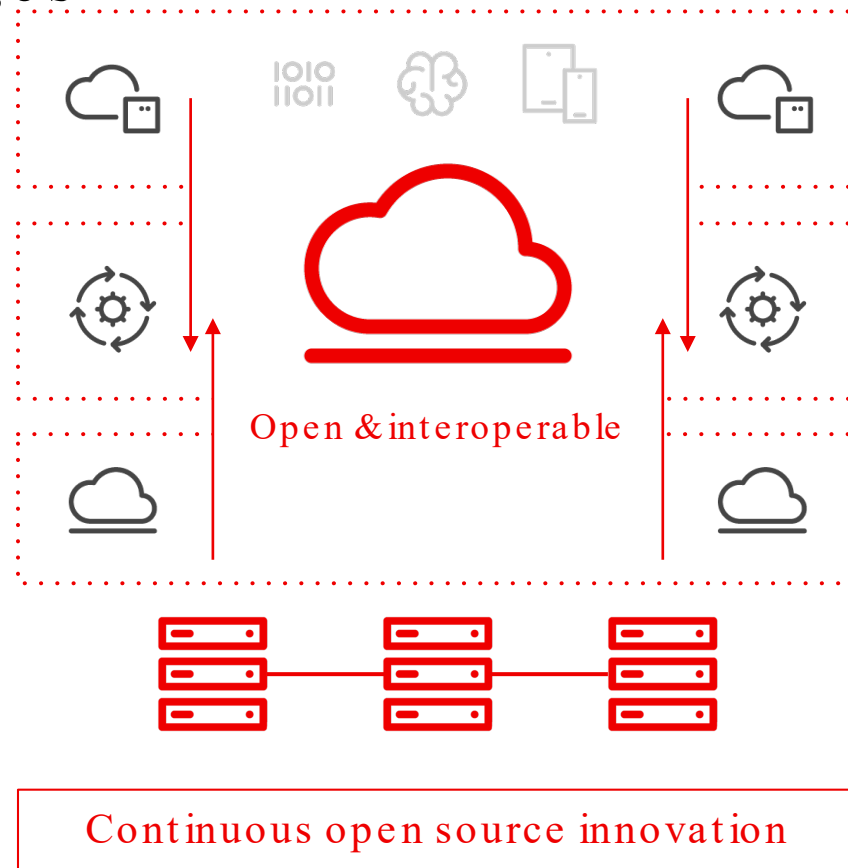
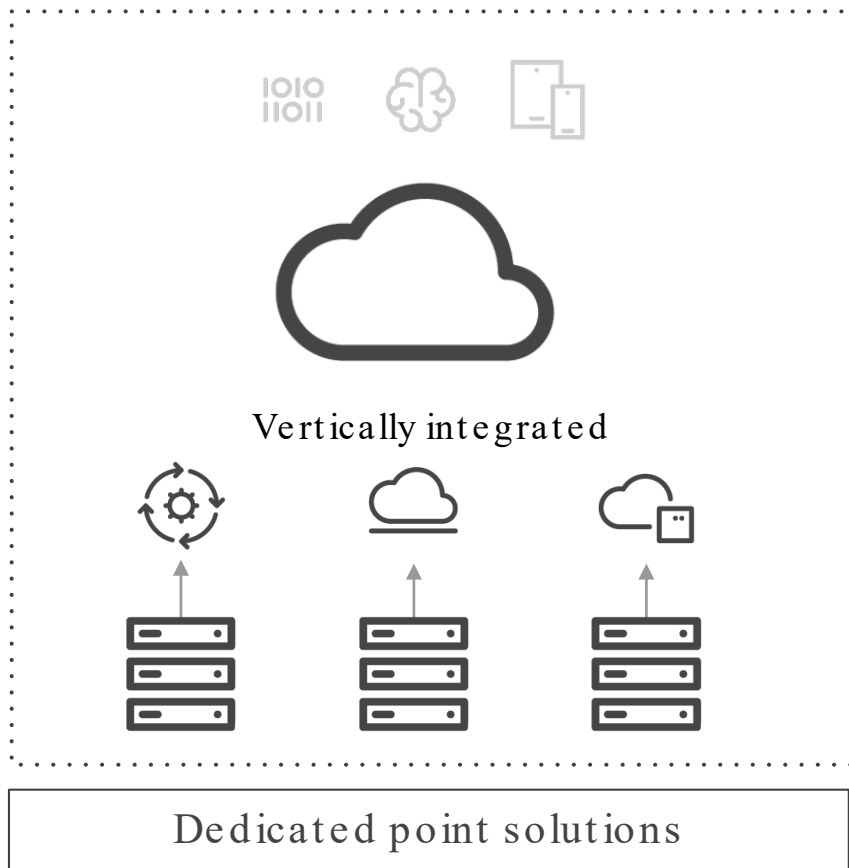
Ensure support for a heterogenous hardware and software environments



### Consistency

Provide a consistent approach for developer and IT operations teams

# Every organization faces a decision about how to approach these challenges



## We believe Red Hat can help



“If edge computing is going to be a realistic future for enterprise IT, **it needs the hybrid cloud and open source to thrive.**”



**Paul Cormier**  
Red Hat President and CEO

**Hybrid cloud** provides operational consistency across your architecture - all the way to the edge

**Open source** harnesses the power of collaboration to drive innovation and interoperability



# Red Hat's approach to edge computing



## Platforms and portfolio



Powerful building blocks including middleware, storage, and services, with Red Hat OpenShift and RHEL in the heart of all



## Open source leadership

Driving development of open standards while providing hardened, fully supported enterprise-grade platforms



## Partner ecosystem



Partnering with hardware and software vendors to provide solutions to meet customer needs

# Thank you

*Please reach out with questions.*

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