

大成 DENTONS

# Smart Cities 2019



Modernizing and coordinating digital, physical and social infrastructure can make delivery and use of public, private and hybrid services more efficient, cost effective and socially beneficial. Dentons' Smart Cities & Communities Initiative and Think Tank helps cities and communities take advantage of technological developments that enable the integration of essential services. Bringing together the resources of the world's largest firm and leaders of municipal government, businesses, innovators and stakeholders, we help communities craft innovative legal, economic and policy solutions to societal challenges in an era of accelerating technological change.

**Dentons Smart Cities & Communities**

**Editorial Board**



**Clint Vince**  
Partner  
D +1 202 408 8004  
clinton.vince@dentons.com



**Emma Hand**  
Partner  
D +1 202 408 7094  
emma.hand@dentons.com



**Jennifer Morrissey**  
Counsel  
D +1 202 408 9112  
jennifer.morrissey@dentons.com



**Rudolf H. Beese**  
Partner  
D +1 816 460 2450  
rudy.beese@dentons.com

Dentons' Smart Cities & Communities Think Tank houses legal, business and policy thought leaders who can advise public and private stakeholders from start to finish on virtually all aspects of a Smart Cities & Communities program.

**Pillars of a Successful Smart City:**



**Government Leadership & Public Policy:** Dentons can develop engagement strategies at every level of government, including identifying and building relationships with decision-makers and people empowered to implement the necessary components of a Smart City. We tailor best practices utilized by leading political subdivisions across the United States and the world to meet the specific needs of the community and project.



**Regulation:** Dentons provides counsel on effective design of regulations so as to lower development costs, speed technology deployment, and achieve efficient and equitable outcomes for communities. This can be done both proactively, in the early stages of Smart City implementation, and reactively, if legal structures are discovered that will present challenges at a later phase.



**Technology & Innovation:** Dentons can assist communities in assessing infrastructure needs and creating feasible strategies to design and install the systems necessary to support smart technologies, while continuing to examine advances coming out of centers of innovation, such as the national laboratories, universities, and private enterprises.



**Telecommunications:** Advanced telecommunications systems are needed to support smart technologies. We work with stakeholders to evaluate and advocate policies that promote 5G deployment and the development of compatible firmware and hardware. Focus on facilitating multiple uses for smart infrastructure upgrades is essential so costs can be minimized and appropriately shared among a broad array of beneficiaries.



**Cyber & Physical Security and Privacy:** Dentons advises on the creation of systems to protect privacy while allowing for deployment of advanced digital technologies, including frameworks and protocols for data gathering and use. We also provide strategic advice on issues related to infrastructure security to address perennial and novel challenges faced by communities.



**Consumer Engagement & Community Social Infrastructure:** Social infrastructure is every bit as critical as physical and digital infrastructure in any modernization initiative, but it is often given far less attention. Dentons works with community leaders, interest groups, businesses, and residents to conduct outreach to ensure broad public participation, understanding and buy-in to the benefits that a Smart City can offer, and to adapt a Smart City program to the particular needs and desires of the community.



**Finance, Investment & Economic Development:** Because of the varied benefits that will flow from Smart Cities— including improved environmental health, social, and economic-related outcomes, modernization initiatives may exceed the scope of traditional municipal infrastructure projects. Dentons can help to identify optimum funding strategies and solutions from both existing and untapped sources of capital.



**Transportation & Mobility:** Mobility is key to quality of life. When infrastructure is powered by advanced technologies, cities will realize countless benefits from reduced emissions and congestion as clean vehicle and ride share use increases, to enhanced public safety, to economic development opportunities as underserved communities are connected with employers through efficient, data-driven mass transit. Dentons can provide counsel on appropriate physical infrastructure and policy options to support technological advancements in transportation and mobility, deployment of electric and autonomous vehicles, and updated traffic and transit systems for the modern economy.



**Energy:** Electric grid modernization is the touchstone of an effective and comprehensive smart city strategy. Without a modern, safe, reliable and resilient grid, implementation of smart technologies is limited. Dentons advises cities on modernizing their electric infrastructure — transitioning to a multi-directional grid with advanced clean technology solutions, including a broad array of distributed energy resources, integration of demand response and efficiency measures.



**Water, Wastewater and Waste:** Water is essential to the well-being and functioning of any city or community. Water availability and quality are two of the greatest challenges that cities and communities will face moving into the future. Similarly, wastewater and waste are issues faced by every city and community worldwide. Dentons can help bring together technical, legal, and policy experts from government, industry, academia, and NGOs who are at the forefront of water resources planning to develop new approaches to address water, wastewater and waste issues.



**Buildings, Cities & Green Space Planning:** Smart buildings are a foundational block of tomorrow's cleaner, healthier cities and communities. Dentons can help bring together municipalities, real estate developers, engineers, land use and other experts to create smart building and development strategies that encourage productivity and energy efficiency while promoting liveable and sustainable habitats for the future.



**Environment, Health & Safety:** Dentons works with cities and communities to ensure that environmental strategies support economic opportunity while sustaining natural resources and improving quality of life. We also work with communities to address smart delivery of health and safety services, and maximizing the opportunities offered by the "Internet of Things" to enhance security, safety and operational efficiencies related to healthcare and public safety.



**NGOs & Universities:** While developing smart cities plans, local governments should engage universities and NGOs to provide intellectual firepower and nurture public trust. At the same time, many universities are ideally scaled for utilization of smart infrastructure and can serve as models for communities in their regions for clean technology solutions. Dentons works with these entities, through the Think Tank and in work for clients, to take advantage of the wealth of resources they offer to cities and communities seeking to modernize infrastructure.



**Global Best Practices:** Smart Cities and Communities are constantly evolving worldwide. Because innovations developed in one country or region have international application, Dentons, with its unparalleled global reach, can play an important role in helping to integrate new developments and share best practices from across the globe.

# Dentons Smart Cities & Communities

## Think Tank Organizational Chart

### Pillar Chairs and members

\*Members as of June 2019

#### Government Leadership & Public Policy:

##### Pillar Chairs:

###### Eric Tanenblatt

Global Chair, Public Policy and Regulatory practice, Dentons US

###### Rodney Ellis

Commissioner, Harris County, (Houston,Texas) and Senior Advisor, Dentons US

###### Katie McGinity

VP Global Government Relations, Johnson Controls

###### Michael Nutter

Former Mayor of Philadelphia; Past President, Conference of Mayors and Senior Advisor, Dentons US

###### Stephanie Rawlings-Blake

Former Mayor of Baltimore; Past President, Conference of Mayors and Senior Advisor, Dentons US

###### The Hon. Doug J. Black

QC, Senior Counsel, Dentons Canada and Senator from Alberta, Canada

#### Regulation:

##### Pillar Chairs:

###### Nora Brownell

Co-founder, Espy Energy Solutions; former FERC Commissioner and former Commissioner, Pennsylvania Public Utility Commission

###### Robert Gee

President, Gee Strategies Group, LLC; former Assistant Secretary for Policy and International Affairs, US Department of Energy; VP for Development and Partner Relations, Electricity Innovation Institute (E2I) and former Chair, Public Utility Commission of Texas

###### Helena Moreno

Chair for the Utility, Cable, Telecommunications and Technology Committee of the New Orleans City Council

###### Brett Perlman

CEO, Center for Houston's Future and former Texas PUC Commissioner

###### Carl Pechman

Director, Research for National Regulatory Research Institute

###### Willie Phillips

Chair, DC Public Service Commission

#### Technology & Innovation:

##### Pillar Chairs:

###### Song Jung

Global Chair, IP&T practice, Dentons US

###### Melanie Kenderdine

Principal, EJM Associates

###### Pete Tseronis

CEO, Dots & Bridges and former Chief Technology Officer, US Department of Energy

###### Rob Wilhite

Managing Partner, Navigant Consulting, LLC

###### Justin Driscoll

Executive VP & General Counsel, New York Power Authority

###### Colonel (Ret .) Pete Newell

Managing Partner, BMNT; Co -Creator, Hacking for Local and Hacking for Defense and former Director, US Army Rapid Equipping Force

###### Morgan O'Brien

Founder and CEO, Anterix; founder and former CEO, Nextel

#### Telecommunication:

##### Pillar Chairs:

###### Todd Daubert

Chair, Communications and Technology sectors, Dentons US

###### John Godfrey

Senior VP, Public Policy, Samsung Electronics America

**Max Oglesbee**

Advisor, Intersection Co.

## **Cyber & Physical Security and Privacy:**

### **Pillar Chairs:**

**General James L. Jones**

Former National Security Advisor and former Supreme Allied Commander Europe

**Karl Hopkins**

Global Chief Security Officer, Dentons US

**Major General Robert Wheeler**

Senior Executive Advisor, Avascent Global Advisors; CEO Strategic Consulting Unlimited, LLC and former Deputy Department of Defense CIO, C4 & Information Capabilities

**Colonel (Ret.) Pete Newell**

Managing Partner, BMNT; Co-Creator, Hacking for Local and Hacking for Defense and former Director, US Army Rapid Equipping Force

## **Consumer Engagement & Community Social Infrastructure:**

### **Pillar Chairs:**

**Jason Williams**

Chair, Smart and Sustainable Cities Committee, Council of the City of New Orleans

**Sheri Givens**

VP, US Regulatory & Customer Strategy, National Grid

**Governor Martin O'Malley**

Former Governor of Maryland

## **Finance, Investment & Economic Development:**

### **Pillar Chairs:**

**Mick Cochran**

Chair, Corporate practice, Dentons US

**Erik Klingenberg**

Chair, Capital Markets practice, Dentons US

**David Griston**

Partner, Dentons Boekel

**Keith Brandt**

Managing Partner Dentons, Hong Kong

## **Transportation & Mobility:**

### **Pillar Chairs:**

**Eric Tanenblatt**

Global Chair, Public Policy and Regulatory practice, Dentons US

**Sam Olens**

Former Attorney General of Georgia and Counsel, Dentons US

## **Energy:**

### **Pillar Chairs:**

**Dr. Ernest Moniz**

Former US Secretary of Energy, President and CEO, ESM Associates

**Paula Gold-Williams**

President & CEO, CPS Energy

**Anne Pramaggiore**

Senior Executive VP and CEO, Exelon Utilities

## **Water, Wastewater and Waste:**

### **Pillar Chairs:**

**Ann Bartuska**

VP for Land, Water and Nature, Resources for the Future

**Alexandra Campbell-Ferrari**

Co-Founder and Executive Director, Center for Water Security and Cooperation

**Michael Allegretti**

Chief Strategy Officer, Rubicon Global

**Jennifer Morrissey**

Co-Editor in Chief, Dentons Smart Cities Think Tank Editorial Board and Counsel, Dentons US

## **Buildings, Cities & Green Space Planning:**

### **Pillar Chairs:**

**Jana Cohen Barbe**

Partner, Dentons US

**Jason Hartke**

President, Alliance to Save Energy

**Tom Murcott**

Advisory Board Member & Development Officer, NeWay

**Roy Pinnock**

Partner, Dentons UK

**Peter Raymond**

Bureau Chief, The New Bureau

## Environment, Health & Safety:

### Pillar Chairs:

#### Matt Adams

Chair, Environmental practice, Dentons US

#### Raymond Sczudlo

Former Executive VP and Chief Legal Officer, Children's National Medical Center and Senior Counsel, Dentons US

#### Anne Slaughter Andrew

Founder and Chairman, TerViva Bioenergy and former US Ambassador to Costa Rica

#### Vicky Arroyo

Executive Director, Georgetown Climate Center, Georgetown University Law Center

## NGOs & Universities:

### Pillar Chairs:

#### Richard Newell

President and CEO, Resources for the Future

#### Aniruddha (Ani) Dasgupta

Global Director, WRI Ross Center for Sustainable Cities

#### Debra Lam

Managing Director, Smart Cities and Inclusive Innovation, Georgia Tech

#### Christine Scanlon

President and CEO, Keystone Policy Center

#### Julia Hamm

President & CEO, Smart Electric Power Alliance

## Global Best Practices:

### Pillar Chairs:

#### Elliott Portnoy

Global Chief Executive Officer of Dentons

#### Joe Andrew

Global Chairman of Dentons

#### Lawrence Jones

VP, International Programs, Edison Electric Institute

#### Jan Vrins

Managing Director & Global Energy Practice Leader, Navigant Consulting, LLC

#### Nancy Sun

Senior Partner, Dentons, Shanghai

## Government Leadership & Public Policy:

### Pillar Members:

#### Karen Carter Peterson

Louisiana State Senator; Board of Trustees, Keystone Policy Center and Counsel, Dentons US

#### John Russell IV

Principal, Dentons US

#### Ivor Samson

Former Mayor and Council Member Lafayette City, California and Partner, Dentons US

#### Sam Olens

Former Attorney General, State of Georgia and Counsel, Dentons US

#### Neil Harris

Council Member, City of Gaithersburg

#### Steve Labovitz

Former Chief of Staff, City of Atlanta and Partner, Dentons US

#### Kateri Callahan

Principal, Dynamic Energy Strategies, LLC

## Regulation:

### Pillar Members:

#### Alexander Nunez

Senior VP for Regulatory and External Affairs, BGE

#### Lem Ward

Former Chief Council, City of Atlanta Law Department and Counsel, Dentons US

#### Andrew Shaw

Senior Managing Associate, Dentons US

#### John Leslie

Office Managing Partner (San Diego), Dentons US

#### Phil Movish

Energy Economist, Legend Consulting

#### Joseph Rogers

Energy Economist, Legend Consulting

#### Erin Spears

Chief of Staff, New Orleans Council Utility Regulatory Office

#### Branko Terzic

Managing Director, Berkeley Research Group LLC

#### Lynne Fowler

Gee Strategies

#### Gilbert Leong

Senior Partner, Dentons Rodyk

**Kateri Callahan**  
Principal, Dynamic Energy Strategies, LLC

## **Technology & Innovation:**

### **Pillar Members:**

**Michael Allegretti**  
Senior VP for Policy and Strategic Initiatives, Rubicon Global

**Alex Kizer**  
Director of Strategic Research, EJM Associates/Energy Futures Initiative

**Max Oglesbee**  
Head of Client Strategy, Design & Technologies, Intersection

**Adrian Rouse**  
Energy Business Advisory, Siemens

**Jennifer Morrissey**  
Co-Editor in Chief, Dentons Smart Cities Think Tank Editorial Board and Counsel, Dentons US

**Chantal Bernier**  
National Practice Leader, Privacy and Cybersecurity, Dentons, Canada

**Stafford Matthews**  
Office Managing Partner (Silicon Valley), Dentons US

**Gilbert Leong**  
Senior Partner, Dentons Rodyk

**Kimberly Britton**  
CEO, EPIcenter

## **Telecommunication:**

### **Pillar Members:**

**Peter Tseronis**  
CEO, Dots & Bridges and former Chief Technology Officer, US Department of Energy

**Basile Uddo**  
Telecom & electric utility regulatory expert and former law professor, Loyola College of Law, Loyola University (New Orleans)

**Gilbert Leong**  
Senior Partner, Dentons Rodyk

**Kirsten Thompson**  
National Lead, Transformative Technologies and Data Strategy Group, Dentons Canada

**Michael Tierney**  
Chief Patent Officer, JMA Wireless

## **Cyber & Physical and Privacy:**

### **Pillar Members:**

**Sam Olens**  
Former Attorney General, State of Georgia and Counsel, Dentons US

**Chantal Bernier**  
National Practice Leader, Privacy and Cybersecurity, Dentons, Canada

**Todd Daubert**  
Chair, Communications and Technology sectors, Dentons US

**Alex Kizer**  
Director of Strategic Research, EJM Associates/Energy Futures Initiative

**Jeffrey Bleich**  
Former US Ambassador to Australia and Partner, Dentons US

**Glenn Kesselman**  
President, Kesselman Cybersecurity

**Gilbert Leong**  
Senior Partner, Dentons Rodyk

**Katie McGinity**  
VP Global Government Relations, Johnson Controls

**Kirsten Thompson**  
National Lead, Transformative Technologies and Data Strategy Group, Dentons Canada

## **Consumer Engagement & Community Social Infrastructure:**

### **Pillar Members:**

**Jason Hartke**  
President and CEO, Alliance to Save Energy

**Barbara Altman**  
Center for Water Security and Cooperation

**Rodney Boyd**  
Senior Counsel, Dentons US

**Gilberto Ocañas**  
Senior Advisor, Dentons US

**James Richardson**  
Managing Director, Dentons US

**Karina Mandell**  
Founder, Green Smart Cities (Baltimore)

**Casey DeMoss**  
Writer, advocate, leader on sustainability issues and former Executive Director, Alliance for Affordable Energy

**Keith Lampkin**

Chief of Staff and Legislative Director,  
Council of the City of New Orleans

**Beth Galante**

VP, Nexus City & Aspen Institute Fellow

**Robert Rauch,**

President, Rauch Inc.

**Kimberly Britton**

CEO, EPICenter

**Finance, Investment & Economic Development:****Pillar Members:****Steve Labovitz**

Former Chief of Staff, City of Atlanta and Partner, Dentons US

**Jon Sohn**

US Director, Government Relations and Policy, Capital Power

**Mike Froy**

Co-Chair, Global Corporate practice and Global  
Manufacturing sector, Dentons US

**Marlo Young**

Partner and US General Counsel, Dentons US

**Michael Ledgett**

Partner, Dentons, Canada

**Karen Jordan**

Partner, Dentons US

**Transportation:****Pillar Members:****Sharon Gay**

Office Managing Partner (Atlanta), Dentons US

**Elmer Stancil**

Senior Managing Director, Dentons US

**Ed Lindsey**

Former Georgia State Representative and Partner,  
Dentons US

**Matthew Nelson**

Director, Government Affairs, Electrify America

**Crawford Schneider**

Associate Managing Director, Dentons US

**Marc Fornacciari**

Partner, Dentons Europe

**Niel Golightly**

Chief of Staff, Recovery Office, City of Houston

**Michael Ledgett**

Partner, Dentons, Canada

**Energy:****Pillar Members:****Robert Wilhite**

Managing Director, Navigant Consulting, LLC

**Jason Hartke**

President, Alliance to Save Energy

**Alex Nunez**

Senior VP, Regulatory and External Affairs, BGE

**Timothy Olson**

Climate change and sustainable solutions expert and  
former Senior Project Manager, Aspen Institute's Energy and  
Environment Program

**Jeanette Pablo**

General Counsel, EJM Associates

**Mary Emerson**

University of Baltimore School of Law

**Sona Taghiyeva**

Counsel, Dentons

**Michał Motylewski**

Counsel, Dentons, Europe

**Mark Clough**

Senior Counsel, Dentons Europe

**Adam Brown**

Managing Practice Development Lawyer, Dentons, UK

**Sara Colangelo**

Director of the Environmental Law Program, Georgetown  
University Law Center

**Water, Wastewater and Waste:****Pillar Members:****Todd Silliman**

Partner, Dentons US

**John Bezdek**

Former senior advisor to the Deputy Secretary, Department  
of the Interior and former Deputy Director, Indian Water  
Rights Office

**Buildings, Cities and Green Space Planning:****Pillar Members:****Rudy Beese**

Partner, Dentons US



**David Gilford**  
Principal, Urban Technology, HR&A Advisors, Inc.

**Katarzyna Sliwa**  
Partner, Dentons Canada

### Environment, Health & Safety:

#### Pillar Members:

**Michael Allegretti**  
Chief Strategy Officer, Rubicon Global

**Bruce Merlin Fried**  
Partner, Dentons US

**Andrew Shaw**  
Senior Managing Associate, Dentons US

**Timothy Olson**  
Climate change and sustainable solutions expert and former Senior Project Manager, Aspen Institute's Energy and Environment Program

**Jessica Duggan**  
Senior Managing Associate, Dentons US

**Meredith Miller**  
Counsel, Dentons, US

**Tesch West**  
Associate, Dentons, US

### NGOs & Universities:

#### Pillar Members:

**Dr. Robin Cantor**  
Managing Director, Berkeley Research Group and President, Women's Council on Energy & Environment

**Dr. Fenner Stewart**  
University of Calgary Faculty of Law

**Jennifer Morrissey**  
Co-Editor in Chief, Dentons Smart Cities Think Tank Editorial Board and Counsel, Dentons US

**Andrew Shaw**  
Senior Managing Associate, Dentons US

**Randy Nuckolls**  
Partner, Dentons US

### Global Best Practices:

#### Pillar Members:

**Ronke Luke**  
Chemical engineer and clean tech expert and past President, WCEE

**Kym Livesley**  
Partner, Dentons, Australia

**Vivek Bakshi**  
Partner, Dentons, Canada

**Adam Brown**  
Managing Practice Development Lawyer, Dentons UK

**Xiuchao Yin**  
Partner, Dentons, Beijing

**Neil Parsan**  
Former Ambassador of Trinidad and Tobago to the United States and Senior Consultant, Dentons, Europe

**Marc Fornacciari**  
Partner, Dentons Europe

## Contacts



**Clint Vince**  
Partner  
D +1 202 408 8004  
[clinton.vince@dentons.com](mailto:clinton.vince@dentons.com)



**Emma Hand**  
Partner  
D +1 202 408 7094  
[emma.hand@dentons.com](mailto:emma.hand@dentons.com)



**Jennifer Morrissey**  
Counsel  
D +1 202 408 9112  
[jennifer.morrissey@dentons.com](mailto:jennifer.morrissey@dentons.com)

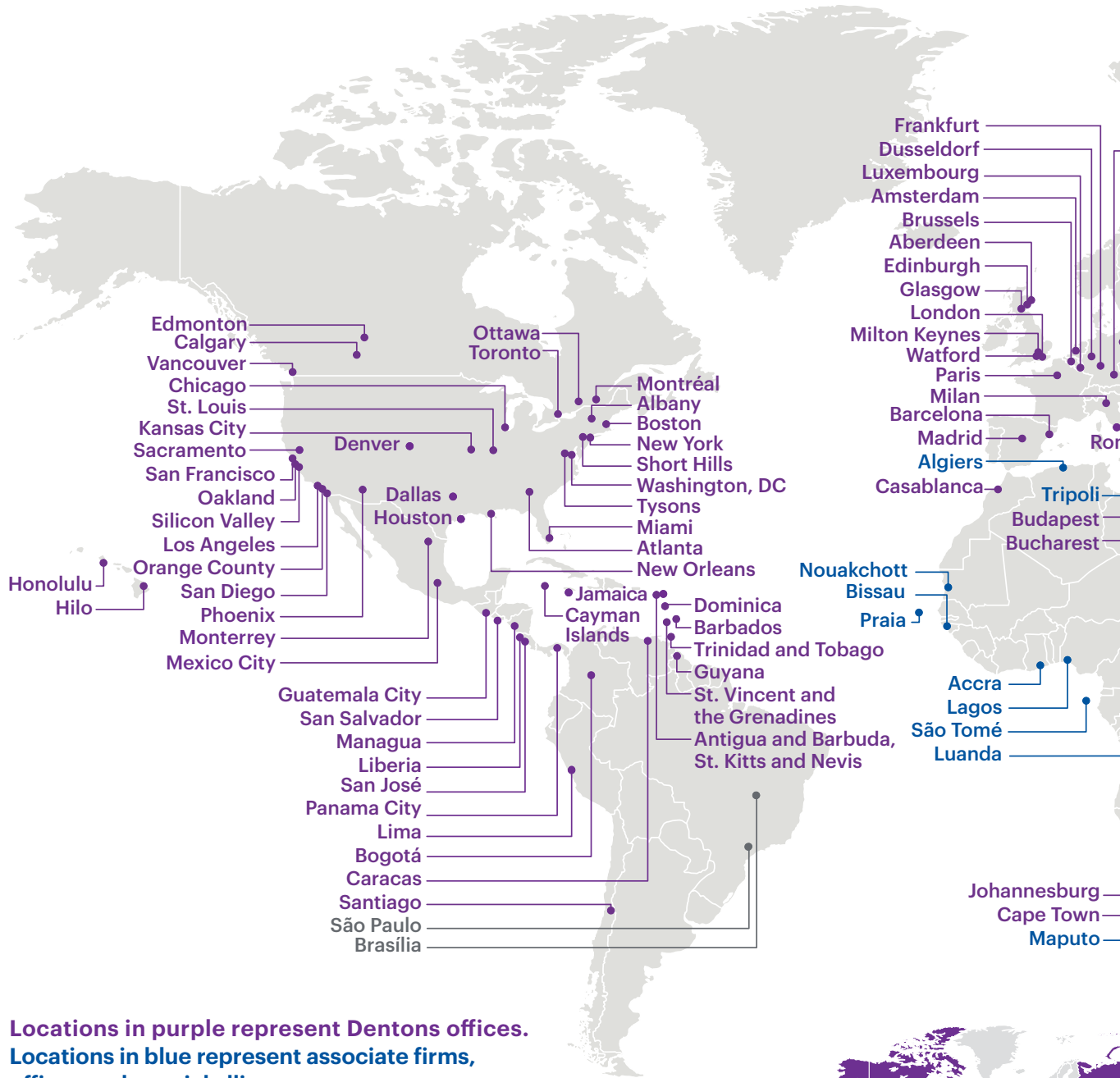


**Eric Tanenblatt**  
Principal  
D +1 202 496 7373  
[eric.tanenblatt@dentons.com](mailto:eric.tanenblatt@dentons.com)



**Rudolf H. Beese**  
Partner  
D +1 816 460 2450  
[rudy.beese@dentons.com](mailto:rudy.beese@dentons.com)

# Our global presence

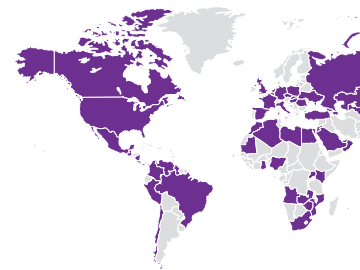


Locations in purple represent Dentons offices.

Locations in blue represent associate firms, offices and special alliances.

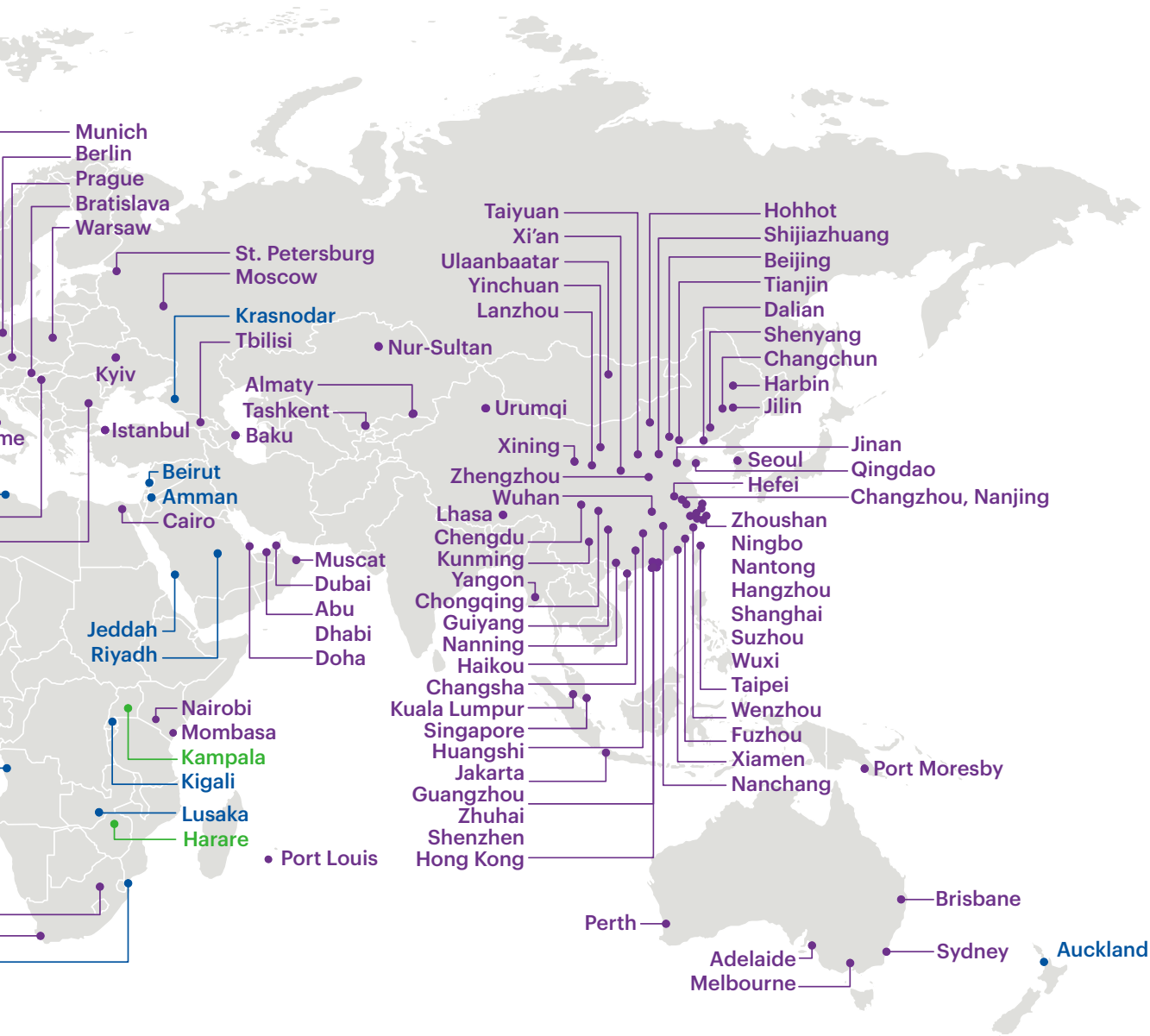
Locations in green represent proposed combinations that have not yet been formalized.

Locations in grey represent Brazil Strategic Alliance.



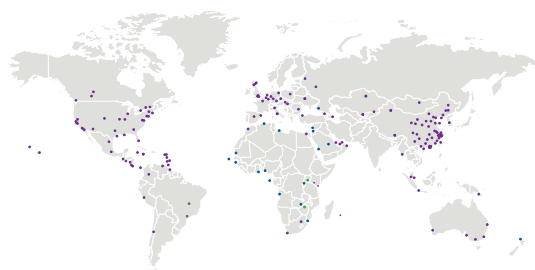
Total number of lawyers

**10,000+** 



Countries

**79**



Locations

**177**



All timekeepers

**12,700+**



Total number of people

**17,500+**



## **ABOUT DENTONS**

Dentons is the world's largest law firm, delivering quality and value to clients around the globe. Dentons is a leader on the Acritas Global Elite Brand Index, a BTI Client Service 30 Award winner and recognized by prominent business and legal publications for its innovations in client service, including founding Nextlaw Labs and the Nextlaw Global Referral Network. Dentons' polycentric approach and world-class talent challenge the status quo to advance client interests in the communities in which we live and work.

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