

# Further Reading for Disruption and PPPs

## Disruption and PPPs

### Further Reading

How can private sector adoption of emerging technologies be supported within existing and future PPP projects? How can new technologies be harnessed to strengthen PPP projects going forward? Which parties should bear the burden of the risk of obsolete and stranded assets? And how can governments “future-proof” their pipeline PPPs? Please find resources for Disruption and PPPs below.

[Download Full Report](#)

[Download Chatbot View](#)

Photo Credit: [Image by Freepik](#)

[PPP Contracts in An Age of Disruption Table of Contents](#)

**Watch this space.** This section is based on the Report "[PPP Contracts in An Age of Disruption](#)" and will be reviewed at regular intervals. Visit the [Content Outline](#), or [Download the Full Report](#) to find out more. Let us know what you think by taking a [Quick Survey](#).

---

**Watch this space.** This section is based on the Report "[PPP Contracts in An Age of Disruption](#)" and will be reviewed at regular intervals. Visit the [Content Outline](#), or [Download the Full Report](#) to find out more. Let us know what you think by taking a [Quick Survey](#).

---

## Disruptive Technology

[Developing Artificial Intelligence Sustainably: Toward a Practical Code of Conduct for Disruptive Technologies](#)

[IFC Technology Code of Conduct— Progression Matrix](#)

[Reinventing Business through Disruptive Technology](#)

[Hydrogen May Be The Crucial ‘Jigsaw’ Piece For Green Microgrids](#)

[The Impact of Technological Disruption on Infrastructure](#)

[Unmanned Aerial Vehicles \(UAV\) for Freight and Logistics](#)

[Artificial Intelligence: Definition, Advice, Comparisons, Testimonials...](#)

[Artificial Intelligence \(AI\) in Construction Market to Reach USD 4.51 Billion By 2026](#)

[Virtual and Augmented Reality for Planning and Design](#)

[6 ways the Internet of Things is improving our lives](#)

[Disruptive Technologies and Transportation](#)

[Disruptive technologies: Advances that will transform life, business, and the global economy](#)

[Smart Grids](#)

[Estimated average battery capacity in electric vehicles worldwide from 2017 to 2025, by type of vehicle](#)

[The future of transport is here. Are you ready?](#)

[Ride Sharing Market Size Worldwide in 2021 and 2026](#)

[Plug-In Electric Vehicle Handbook](#)

[The World's Electric Vehicle Fleet Will Soon Surpass 20 Million](#)

[Hyperloop for High-Speed Passenger Transport](#)

[Forms of Transport Automation](#)

[Autonomous Vehicles: Are You Ready for the New Ride?](#)

[Why augmented reality will increase safety and efficiency in utility sector](#)

Mainstreaming the Approach to Disruptive and Transformative Technologies at the World Bank Group  
Disruptive Technologies and the World Bank Group—Creating Opportunities—Mitigating Risks  
Vehicle to Infrastructure (V2I) Connectivity

**Infrastructure and PPPs**

The Effects of the Financial Crisis on Public-Private Partnerships  
Selected Good Practices for Risk Allocation and Mitigation in Infrastructure in APEC Economies  
Disruptive Technology Brings Risk and Opportunity to Infrastructure Projects  
InfraTech in GIH  
G20 Riyadh InfraTech Agenda, Background  
Infratech Policy Toolkit  
Infratech Value Drivers  
InfraTech Stock Take of Use Cases  
Why the world needs a fresh take on smart and sustainable infrastructure  
The PPP project A3 AK Biebelried – AK Fürth/Erlangen  
SFpark Pilot Program  
Challenges and opportunities beyond 2021  
2020 Global Risks for Infrastructure: Appendix  
Framing Stranded Asset Risks in an Age of Disruption  
Resetting price controls for privatized utilities: a manual for regulators  
Public Private Partnerships in the EU: Widespread shortcomings and limited benefits  
Financing PPP Projects with PVR Contracts: Theory and Evidence from the UK and Chile  
Understanding Power Purchase Agreements  
OFGEM  
Covid-19 – implications under French Law and guidelines for future project finance transactions  
PPP Contract Management  
Covid 19, Frustration of Purpose and Impossibility  
Contracts and COVID-19  
Victorian Desalination PPP  
Bringing PPP into the Sunlight – Synergies Now and Pitfalls Later?  
G20 Principles for Quality Infrastructure Investment  
The Regulatory Asset Base Model and the Project Finance Model: A Comparative Analysis  
Public-Private Partnership (P3) Procurement: A Guide for Public Owners  
PFI and Covid-19 Guidance Note  
Project Profile: Puerto Rico PR-22 and PR-5 Lease  
Public-Private Partnerships in Puerto Rico, Key Points

**Adoption of Disruptive Technology throughout the PPP Project Cycle**

Study on up-take of emerging technologies in public procurement  
Restoring Confidence in Public–Private Partnerships: Reforming Risk Allocation and Creating More  
Collaborative PPPs  
Promoting InfraTech adoption across the Infrastructure lifecycle

**Case studies**

The PPP project A3 AK Biebelried – AK Fürth/Erlangen  
SFpark Pilot Program  
Victorian Desalination PPP  
Project Profile: Puerto Rico PR-22 and PR-5 Lease  
Public-Private Partnerships in Puerto Rico, Key Points  
ENGIE successfully refuels the world’s first renewable hydrogen passenger train in test in the Netherlands

## General Resources

[Green, Resilient, and Inclusive Development](#)

[Just Transition for All: The World Bank Group's Support to Countries Transitioning Away from Coal](#)

[World Energy Transitions Outlook](#)

[Renewable energy and climate pledges: Five years after the Paris Agreement](#)

[Statistical Review of World Energy 2020](#)

[The Five Biggest New Energy Trends In 2022](#)

[The Falling Cost of Renewable Energy](#)

[Renewables 2021 - Global Status Report 2021](#)

## Sections

[Disruption and PPPs](#)

[Disruption and PPPs](#)

[Post-Pandemic and PPP](#)

[Pandemics and PPPs](#)

[Climate Resilience and PPPs, Aerial view of forest by lake with reflection](#)

[Climate Resilience and PPPs](#)

## Research and Publications in PPPRC

### BROWSE BY REGION

- [East Asia and Pacific \(EAP\)](#)
- [Europe and Central Asia \(ECA\)](#)
- [Latin America and Caribbean \(LAC\)](#)
- [Middle East and North Africa \(MENA\)](#)
- [North America \(NA\)](#)
- [South Asia \(SA\)](#)
- [Sub-Saharan Africa \(SSA\)](#)

### BROWSE BY SECTOR

- [Power & Renewable Energy](#)
- [Urban & Cities](#)
- [Water & Sanitation](#)
- [Transport](#)
- [Telecom & ICT](#)
- [Solid Waste Management](#)

## BROWSE BY Topic

- [Asset Recycling](#)
- [Climate](#)
- [Disruption](#)
- [Emission Reduction Credit](#)
- [Fragile and Conflict-Affected States \(FCS\)](#)
- [Gender](#)
- [Innovative Revenues for Infrastructure](#)

*The resources on this site is usually managed by third party websites. The World Bank does not take responsibility for the accuracy, completeness, or quality of the information provided, or for any broken links or moved resources. Any changes in the underlying website or link may result in changes to the analysis and recommendations set forth in the Public-Private Partnership Resource Center. The inclusion of documents on this website should not be construed as either a commitment to provide financing or an endorsement by the World Bank of the quality of the document or project. If you have any comments on any of the links provided in the Public-Private Partnership Resource Center, please get in touch [here](#)*