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Nota di contenuto	Front Cover -- Contents -- Acknowledgments -- About the Authors -- Executive Summary -- Abbreviations -- 1 Introduction -- References -- 2 The Digital Paradox in the Middle East and North Africa and the Upside of Digital Technologies -- Notes -- References -- 3 Framework for Understanding the Upside of the Digital Economy -- References -- 4 How Digital Technologies Help to Overcome Market Frictions -- Overcoming Frictions due to Information Asymmetries on Ride-Hailing Platforms -- Overcoming Transport Frictions: IT Sector and Mobility Barriers in West Bank -- Tourism Demand: Overcoming Frictions Associated with Geography and Language Barriers -- Notes -- References -- 5 The Upside of Digital: Empirical Framework and Results -- Lower-Bound Estimates of the Upside of the Digital Economy -- Gains in GDP per Capita -- Gains in Revenue Productivity and Employment in Manufacturing -- Gains in Tourism and Hospitality Industry Jobs -- Reductions in Unemployment and Increases in Female Labor Force Participation -- Summary of the Upside Impact of Digital

Technologies -- Notes -- References -- 6 Three Foundational Pillars of the Digital Economy -- Digital Infrastructure -- Digital Payments -- Regulations for E-commerce -- Notes -- References -- 7 Addressing Challenges and Mitigating Risks -- Liberalization and Competition as Drivers of Mobile Digital Data Technology Adoption -- Competition in the Digital Services Market -- Risk Associated with Digital Social Media -- Data Governance -- Data Privacy in Managing the COVID-19 Pandemic -- Notes -- References -- 8 Summary and Conclusions -- Appendix A: Modeling the Relationship between Digital Payments, Bank Regulation, and Banking System Development -- Appendix B: Benchmark Regressions: Graphs and Statistics -- Appendix C: Description of New Mobile Data Technology Adoption Rankings -- Boxes.

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Sommario/riassunto

The argument that digitalization fosters economic activity has been strengthened by the global COVID-19 pandemic. Because digital technologies are general-purpose technologies that are usable across a wide variety of economic activities, the gains from achieving universal coverage of digital services are likely to be large and shared throughout each economy. However, the Middle East and North Africa region suffers from a "digital paradox†?": the region's population uses social media more than expected for its level of gross domestic product (GDP) per capita but uses the internet or other digital tools to make payments less than expected. The Upside of Digital for the Middle East and North Africa: How Digital Technology Adoption Can Accelerate Growth and Create Jobs presents evidence that the socioeconomic gains of digitalizing the economies of the region are huge: GDP per capita could rise by more than 40 percent; manufacturing revenue per unit of factors of production could increase by 37 percent; employment in manufacturing could rise by 7 percent; tourist arrivals could rise by 70 percent, creating jobs in the hospitality sector; long-term unemployment rates could fall to negligible levels; and female labor force participation could double to more than 40 percent. To reap these gains, universal access to digital services is crucial, as is their widespread use for economic purposes. The book explores how fast the region could approach universal coverage, whether targeting the rollout of digital infrastructure services makes a difference, and what is needed to increase the use of digital payment tools. The authors find that targeting underserved populations and areas can accelerate the achievement of universal access, while fostering competition and improving the functioning of financial and telecommunications sectors can encourage the adoption of digital technologies. In addition, building societal trust in the government and in related institutions

such as banks and financial services is critical for fostering the increased use of digital payment tools.

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e. Magnesium Reagents; 1.2.4.5 Synthesis of Fused Carbocycles, , -Unsaturated Ketones and 3-Cyclopentenols from Conjugated Diene-Magnesium Reagents; 1.2.4.6 Synthesis of Spiro -Lactones and Spiro -Lactones from 1,3-Diene-Magnesium Reagents; 1.2.4.7 Synthesis of -Lactams from Conjugated Diene-Magnesium Reagents; 1.3 Rieke Zinc; 1.3.1 The Preparation of Rieke Zinc; 1.3.2 Direct Oxidative Addition of Functionalized Alkyl and Aryl Halides 1.3.3 Reactions of Organozinc Reagents with Acid Chlorides 1.3.4 Reactions of Organozinc Reagents with , -Unsaturated Ketones; 1.3.5 Reactions with Allylic and Alkynyl Halides; 1.3.6 Cross-Coupling of Vinyl and Aryl Organozinc Reagents Using a Palladium Catalyst; 1.3.7 Intramolecular Cyclizations and Conjugate Additions Mediated by Rieke Zinc; 1.3.8 Formation of Tertiary and Secondary Alkylzinc Bromides; 1.3.9 Cyanide-Based Rieke Zinc; 1.4 Organocopper Reagents Utilizing Rieke Copper; 1.4.1 Introduction; 1.4.2 Background to the Development of Rieke Copper; 1.4.3 Phosphine-Based Copper 1.4.4 Lithium 2-Thienylcyanocuprate-Based Copper 1.4.5 Copper Cyanide-Based Active Copper; 1.4.6 Two-Equivalent Reduction of Copper(I) Complexes : A Formal Copper Anion; 1.5 Rieke Aluminum, Indium, and Nickel; 1.5.1 Aluminum; 1.5.2 Indium; 1.5.3 Nickel; 1.6 Synthesis of Specialized Polymers and New Materials via Rieke Metals; 1.6.1 Formation of Polyarylenes Mediated by Rieke Zinc; 1.6.2 Regiocontrolled Synthesis of Poly(3-alkylthiophenes) and Related Polymers Mediated by Rieke Zinc; 1.6.3 Synthesis of Poly (phenylcarbyne) Mediated by Rieke Calcium, Strontium, or Barium 1.6.4 Chemical Modification of Halogenated Polystyrenes Using Rieke Calcium or Copper 1.6.5 Polymer Supported Rieke Metal Reagents and their Applications in Organic Synthesis; 2 Allylic Barium Reagents; 2.1 Introduction; 2.2 Preparation of Stereochemically Homogeneous Allylic Barium Reagents; 2.2.1 Direct Insertion Method Using Reactive Barium; 2.2.2 Stereochemical Stability; 2.2.3 Silylation of Stereochemically Homogeneous Allylic Barium Reagents; 2.2.3.1 Procedure for Generation of Reactive Barium (Ba*); 2.2.3.2 Procedure for Protonation of the Geranyl Barium Reagent 2.2.3.3 Silylation of (E)-2-Decenylbarium Chloride

Sommario/riassunto

Reactions with metals are ubiquitous in organic synthesis and, particularly in the last few years, a large repertoire of methods for the activation of metals and for their use in organic synthesis has been developed. In Active Metals, topics ranging from morphology of metal clusters and nanometallurgy to organometallic chemistry, catalysis and the use of activated metals in natural product synthesis are authoritatively discussed by leading experts in the field. Active Metals will allow you to fully benefit from the recent advances in the field by giving:* Detailed experimental p
