TOLL ROADS DIVISION

2023 Revenue: €1.256 B

Cintra, Ferrovial's Toll Roads business unit, is engaged in the development, financing and operation of toll road infrastructure projects and car parks. Cintra manages over 1,169 kilometers of toll roads under 21 concessions in 10 countries in North America, South America, Europe and Australia. Approximately 96% of Cintra's value is concentrated on North America's operations.

AIRPORTS DIVISION

2024 Revenue: €91 M

Ferrovial Airports is one of the World's leading private airport investors, developers and operators, with assets in the United Kingdom, United States and Turkey.

CONSTRUCTION DIVISION

2024 Revenue: €7.234 B

Ferrovial Construction is a leading Spanish construction company that designs, develops, finances, and operates construction projects, including all types of public and private works and, most notably, the construction of public infrastructures.

SERVICES & MOBILITY DIVISION

2024 Revenue: €296 M

Ferrovial seeks business opportunities beyond its traditional construction, toll road, and airport activities, focusing on projects that respond to changing needs and habits of urban communities for (1) the circular economy such as solid waste management via Thalia in the U.K., (2) the construction of water and wastewater treatment plants in Texas and (3) vehicle electrification.

ENERGY DIVISION

Partial 2024 Revenue: €270 M

The energy division is involved in (1) energy transition projects, maintaining a commitment to the development of sustainable, innovative, and efficient solutions, and (2) energy infrastructure projects, including transmission lines and renewable energy generation plants.

cintra

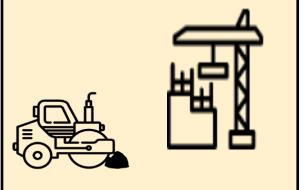


ferrovial airports



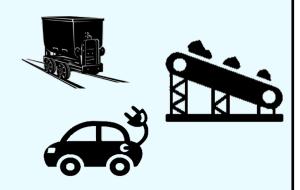
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construction



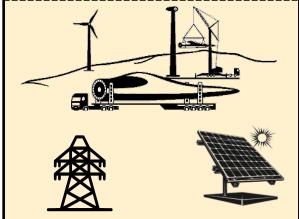
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energy



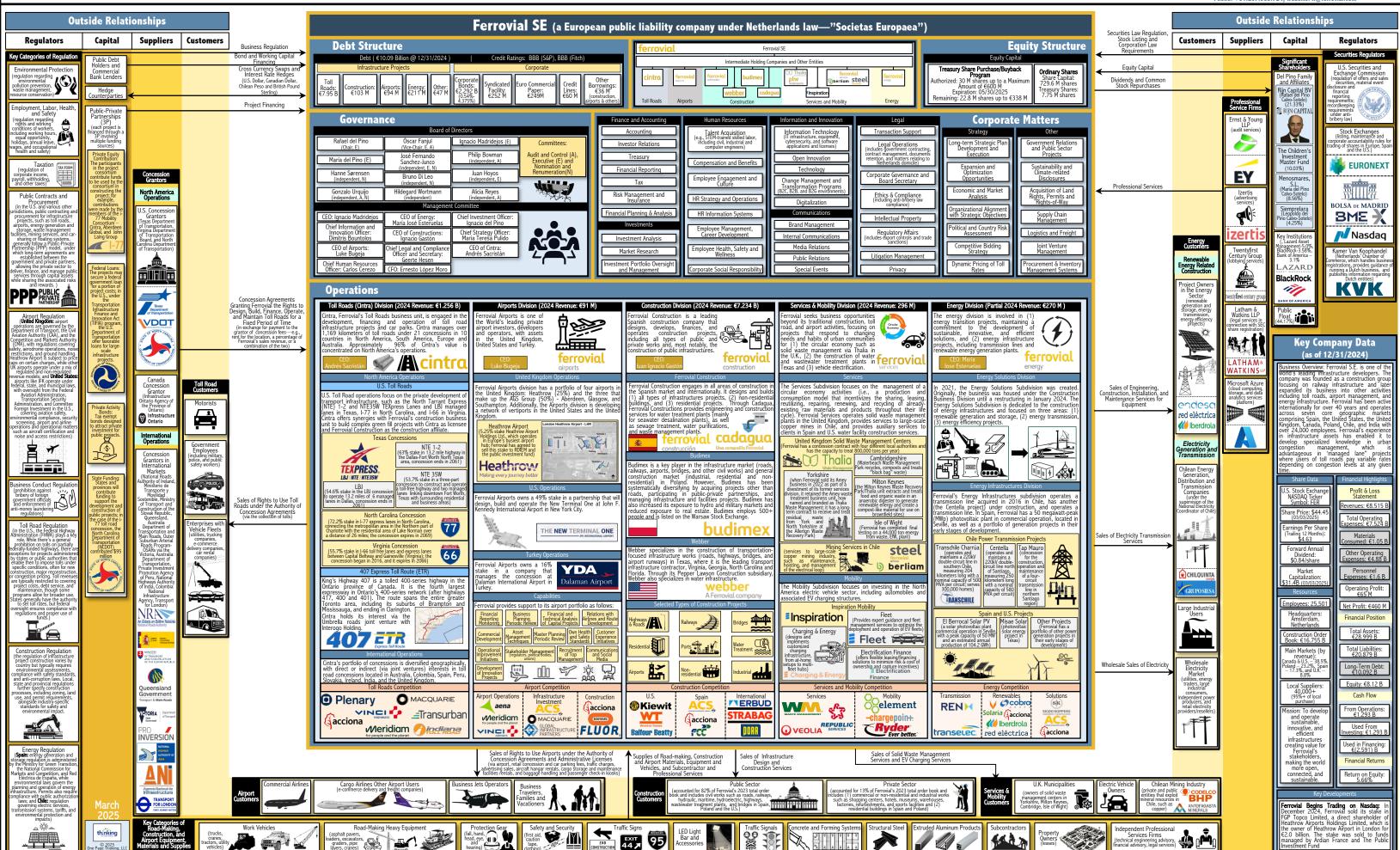
ferrovial

Ferrovial Ecosystem

Ferrovial SE

Amsterdam Teleport Towers, Kingsfordweg 151 (2nd Floor) 1043 GR Amsterdam, The Netherlands

Phone: +31.207.983.724: Website: ir@ferrovial.com



GLOSSARY

Airport Infrastructure: Airport infrastructure encompasses the facilities and systems that support air travel, ensuring the efficient movement of passengers, cargo, and aircraft. It includes may be a supported to the systems and mainten handling filed surprised components include security systems, and ground transportation links. Airports are designed to accommodate different aircraft sizes, manage air traffic, and provide services such as customs, immigration, and passenger amenities. Proper planning and maintenance of airport of infrastructure are essential for safety, efficiency, and seamless global connectivity.

Bridge Infrastructure: Bridge infrastructure refers to the structures designed to span physical obstacles, such as rivers, valleys, or roads, to facilitate transportation. It includes various components like decks, piers, abutments, cables, and supports, ensuring stablity, and durability. Bridges can be made from materials like steel, concrete, or wood and come in different types, such as beam, arch, suspension, and cable-stayed bridges, each suited for specific load requirements and environmental conditions. Proper maintenance and engineering are essential to ensure safety and longevity.



Circular Economy: Refers to an economic model designed to minimize waste and maximize resource efficiency by Keeping materials, products, and resources in use for as long as possible. By reusing, repairing, re-manufacturing, and recycling them. It contrasts with the traditional linear economy, which follows a "take-make-dispose" approach.

Compliance: Refers to the act of adhering to laws, regulations, industry standards, and internal policies that govern an organization's operations. This includes compliance with legal requirements (such as abor laws, data protection regulations, and financial reporting standards), ethical guidelines, and contractual obligations. Effective compliance helps businesses mitigate risks, avoid legal penalties, protect their reputation, and build trust with stakeholders.



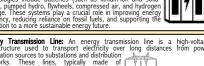


EfW: Refers to Energy from Waste (EfW), a process where non-recyclable waste is burned to create heat, which is then used to generate electricity. It's a way to reduce the amount of trash going to landfills while also producing a source of renewable energy.

Electric Carsharing: Electric carsharing is a mobility service that allows users to rent electric vehicles (EVs) on a short-term basis, typically through a mobile app, it promotes sustainable transportation by reducing emissions, traffic congestion, and the need for private car ownership. Carsharing fleets consist of fully electric or plug-in hybrid vehicles, charged at designated stations or through home charging. Users can pick up and drop off cars at fixed locations or within a designated area in free-floating systems.



Energy Storage: refers to the capture and retention of energy or later use, helping balance supply and demand in power systems. It enables efficient utilization of renewable energy sources like solar and wind, enhances grid stability, and provides sources line solar and wind, enhances gine stability, and provides packup power during outgaes. Common energy storage echnologies include batteries (such as lithium-ion and solid-state), pumped hydro, flywheels, compressed air, and hydrogenstorage. These systems play a crucial role in improving energy efficiency, reducing reliance on fossil fuels, and supporting the ransition to a more sustainable energy future.

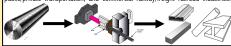


Energy Transmission Line: An energy transmission line is a high-voltage infrastructure used to transport electricity over long distances from powe generation sources to substations and distribution networks. These lines, typically made of conductive materials like aluminum or copper, form the backbone of the electrical grid, enabling efficient energy transfer while minimizing power losses. Transmission lines can be overhead (supported by towers) or underground, with alternating current (AC) and direct current (DC) systems used depending on distance and efficiency needs.

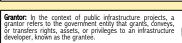
Equity: Equity represents the ownership interest in a company. It is the residual value of assets after deducting flabilities. For companies, equity includes common stock, retained earnings, and additional paid-in capital. It reflects the shareholders' stake in the business and can be increased through profits or investments. Equity is an important measure of a company's financial health and is commonly used in valuation and investment analysis.



Extrusion: An extruded product is a long piece of aluminum that has been shaped and treated to be used for structural or decorative purposes. The process of creating an extrusion involves heating a billet of aluminum alloy, forcing it through a die, and then cooling the resulting piece. A large profile is a profile that is larger than the normal profile used in processes industries such as the construction, public/private transportation, and commercial railway/freight railroad industries.

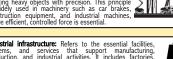


Forming Systems: Refers to the temporary or permanent molds used to shape and support concrete until it hardens and gains sufficient strength to be self-supporting. These systems are essential in cast-in-place concrete construction and are designed to provide stability, maintain the desired shape, and ensure the quality of the final structure.





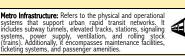
Hydraulic: Refers to the use of liquids, typically oil or



Industrial Infrastructure: Refers to the essential facilities, systems, and services that support manufacturing, production, and industrial activities. It includes factories, warehouses, power plants, transportation networks, water and waste management systems, and telecommunication networks. Additionally, it encompasses utilities such as electricity, gas, and raw material supply chains.

Luminaire: A luminaire is a complete lighting fixture that includes a light source, housing, electrical components, and mounting hardware. It is designed to control and direct light efficiently while providing protection and aesthetics. Luminaires come in various types, including ceiling lights, wall-mounted fixtures, streetlights, and industrial lighting systems, and can use different technologies such as LED, fluorescent, or incandescent bulbs. They play a crucial role in illumination for residential, commercial, and public spaces, enhancing visibility, safety, and ambiance.

Maritime Infrastructure: Refers to the physical and organizational structures that support maritime transportation, trade, and activities. It includes ports, harbors, docks, shipyards, navigation channels, breakwaters, lighthouses and offshore structures such as oil rigs and wind farms. These facilities enable the movement of goods and people, support commercial shipping, rawal operations, and fishing industries, and contribute to global trade and economic growth.



Office Infrastructure: Refers to the physical and technological facilities that support a functional and efficient workplace, it includes buildings, workspaces, furniture, communication networks, IT systems, security measures, utilities (electricity, water, HVAC), and amenities such as conference rooms, cafeterias, and parking.



Photovoltaic Plant: A large-scale solar power facility that converts sunlight into electricity using photovoltaic panels. These plants consist of numerous solar modules, inverters, and grid connections to generate and distribute renewable energy efficiently. PV plants can be ground-mounted or integrated into buildings and are a key component of sustainable energy systems, fielping reduce reliance on fossi fless and lower carbon emissions while providing dean electricity to homes, businesses, and industries.



Public-Private Partnerships (PPP): A Public-Private Partnership (PPP) is a collaborative arrangement between

Railroad Infrastructure: Refers to the physical and technical systems that support rail transportation, enabling the movement of passengers and freight. It includes tracks, bridges, tunnels, stations, signaling systems, and maintenance facilities. Key components such as rail ties, ballast, overhead components such as rail ties, ballast, overneau electrification, and switching mechanisms ensure safe and efficient train operations. Modern railroad infrastructure incorporates high-speed rail, automated signaling, and energy-efficient designs to improve connectivity and sustainability. Proper maintenance and investment in rail infrastructure maintenance and investment in rail infrastructure

lesidential Buildings: Residential buildings are structures lesigned for people to live in, ranging from single-family homes to nullit-story apartment complexes. They provide shelter, comfort, and essential living spaces such as bedrooms, kitchens, althrooms, and living areas. Residential buildings vary in richtectural styles, materials, and sizes, often incorporating nodern amenities, energy-efficient systems, and security features.

Solar Panels: Devices that convert sunlight into electricity using photovoltaic (PV) cells. Made from semiconductor materials like silicon, they absorb sunlight and generate direct current (DC) electricity, which can be converted into alternating current (AC) for use in homes, businesses, and industries. Solar panels are widely used for renewable energy generation, reducing reliance on tossil fuels and lowering carbon emissions.

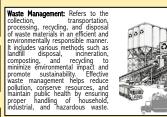
Subcontractors: Refers to a company or individual hired by the general contractor (or main contractor) to perform specific tasks or specialized work on a construction project. Subcontractors typically have expertise in a particular trade and are responsible for completing portions of the overall project under the supervision of the general contractor.





Tunnel Infrastructure: Refers to underground passageways designed for transportation, utilities, or drainage systems. I unnels facilitate the movement of vehicles, trains, pedestrians, and essential services such as water, gas, and telecommunications beneath natural or urban obstacles like mountains, rivers, and cities. Constructed using advanced engineering techniques, they enhance connectivity, reduce congestion, and improve efficiency in transportation and utility networks.





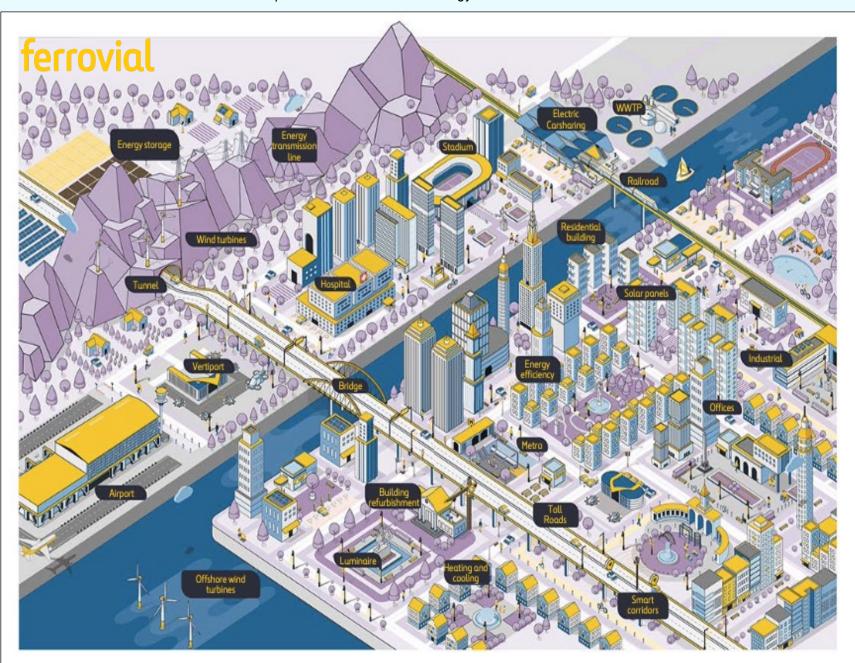
treatment (advanced filtration and disinfection). WTP infrastructure refers to the physical and technological systems that support the Ireatment and management of wastewater. It includes key components such as intake systems, screening facilities, sedimentation tanks, aeration basins, biological treatment units, filtration systems, disinfection facilities, sludge processing units, and effluent discharge structures. Advanced WITP infrastructure may also incorporate energy recovery systems, membrane filtration, and water reuse technologies.

Wind Turbines: Wind turbines are structures that convert wind energy into electricity through the use of rotating blades connected to a generator. As the wind turns the blades, kinetic energy is transformed into mechanical power, which is then converted into electrical energy. Wind turbines come in various sizes and types, including onshore and offshore models, and are a key component of renewable energy systems.



BUSINESS MODEL

Ferrovial is a global infrastructure company focused on the development and operation of infrastructure, with main presence in the transport sector. The company business model is based on an integrated platform with the objective of developing infrastructure projects with high value creation. Ferrovial's activity is carried out through four business units: Toll Roads, Airports, Construction and Energy.



TOLL ROADS

Is focused on the development of congestion-relief It facilitates air transport by improving people's solutions, particularly in North America. The connectivity. The company has more than 25 years of operational expertise managing airports worldwide. It is currently developing the New Terminal One (NTO) division leverages its expertise in transportation infra engineering to develop greenfield assets while minimizing risk and benefiting from synergies concession at JFK airport which is expected to open through our construction subsidiary, and through by 2026. Recently, the company announced the the capability to operate and manage the planned divestment of its 25% stake in Heathrow concession for the remaining life-cycle of the asset. airport, aligned with company's capital allocation strategy of rotating mature assets.

AIRPORTS

Source: Ferrovial 2023 Annual Report

ENERGY

The energy division is focused on the development of projects for the energy transition. The company is dedicated to providing innovative solutions for the promotion, construction, and operation of energy generation and transmission infrastructures, as well as for energy efficiency.

CONSTRUCTION

Is a key pillar of Ferrovial's value creation. It supports all the concession businesses with end-to-end technical, engineering and production capabilities making the company more competitive when bidding new infrastructure projects. Throughout the development of a project, the division is able to manage risks from the bidding and design phase up to the project delivery.

Markets

Upstream

Downstream

The Midstream sector encompasses the construction of residential homes, commercial real estate buildings and facilities, and infrastructure. The construction industry is a vital part of the U.S. economy, accounting for 4.3% of U.S. Gross Domestic Product (GDP) by itselft, ranking twelfth amongst all industries. As of January 2023, the U.S. construction market was valued at \$1.96 trillion. Approximately 7.8 million people are employed by the construction industry (2.9% of the U.S. contractors, government agencies, architectural and engineering firms, and lenders and title insurance companies. The largest industry in the U.S. is the real estate, renting and leasing industry, which contributes to 13% of the GDP. This Downstream sector encompasses the process of taking a completed home, commercial building, or infrastructure facility and putting it in the hands of an individual homebuyer, commercial enterprise, government agency (private government-sponsored contractor), or utility owner. In other words, this sector focuses on the sale, renting and leasing of homes and commercial real estate and the maintenance and furnishing of these properties and infrastructure projects. Leading players of key Downstream segments are: Residential Real Estate Brokers/Leasing Agents: Coldwell Banker Commercial Real Estate Brokers/Leasing Agents: Coldwell Banker Residential Real Estate Brokers/Leasing Agents and Property Managers: CRE, Jones Lang LaSalle (JLL), Cushman & Wakefield, Sodevo, Walker & Dunlop Infrastructure Operation and Maintenance: Ferrovial/Cintra, Kiewit, Plenary Infrastructure Operation and Maintenance: Ferrovial/Ci Land, Materials and Equipment. The upstream sector of the building and construction industry tocuses on land, materials and equipment used to build homes, buildings and infrastructure. - Land Acquisition and Lot Development. This sector involves purchasing undeveloped land that will be developed into finished lots for residential and commercial building construction, obtaining permits, sub-dividing land into parcels, and grading and clearing the land. - Raw Materials - Various raw materials are used in the building and construction industry, such as metal, trees, stone, crude oil, and sand that will ultimately be fabricated or refined into building materials (e.g., aggregates, bricks, forming systems, cement, plastics, ceramic facing and floor tiles, composites, glass, metal, asphalt, precast concrete, sealants, paint and coatings, adhesives, and waterproofing compounds and wood). Materials Fabrication, Heavy Equipment, Tools, Work Vehicles, and Appliances. The upstream sector also encompasses the procurement of heavy construction equipment (e.g., bulldozers, excavators, and cranes), tools such as drills, Materials fabricators: Novelis, Norsk Hydro and household appliances. - Raw materials producers: U.S. Steel, Nucor, Schnitker Steel, Commercial Metals and construction and industry relies heavily on the transportation and distribution/dealer sector are: - Naw materials abricators: Novelis, Norsk Hydro the and Polisances. - Haw materials abricators: Novelis, Norsk Hydro the transportation and Distribution. The building and construction distribution of the trucks and other vehicles, and provided permits of heavy construction equipment (e.g., Schnitker Steel, Commercial Metals and construction and proving trucks and other vehicles, and provided permits of heavy construction and cranes), tools such as drills, Materials fabricators: Novelis, Norsk Hydro the transportation and Distribution, The building and construction and Distribution of the transportation and Distribution of the transportation and Distribut Three Markets. The building and construction industres three consumer markets: (1) homebuilding for serves three consumer markets: (1) homebuilding for single-family residences, (2) commercial real estate for business enterprises, such as retail stores, office buildings, multifamily residential developments, hospitals, and industrial facilities, and (3) infrastructure, which entails the construction of large-scale public works of a government or business enterprise, such as roads, bridges, airports, and utility systems. The industry consists of three sectors: upstream (land, materials and equipment), midstream (construction), and downstream (sales and financing). General. The homebuilding market in the U.S. consists on the construction and sale of residential homes acros the country. Geographic Markets. The U.S. homebuilding market is subdivided into multiple regions: Northwest, West, Southwest, Midwest, South Central, Northeast, East, and Southeast. STRUCTURAL STEEL AND METAL PRODUCTION OTHER METAL **HOMEBUILDING MARKET FABRICATION** Homebuyer Categories. Homebuilders market and sell broad range of homes to discrete categories chomebuyers, including: Entry-level or First-time Homebuyers on a tigh budget. Because buyers are focused on affordability these homes are typically smaller in size and hav basic finishes and features. INDIVIDUALS Move-up Buyers, who are looking to upgrade from their first home to a larger, more luxurious residence. This category of buyer accounts for the majority of home sales. These homes often have more square **LUMBER AND** WOOD TIMBER footage, higher-quality finishes, and more amenities than entry-level homes. Active Adult focuses on older homebuyers who are **PRODUCTION FABRICATION** looking for homes that cater to their unique lifestyle needs. These homes may be smaller than traditiona homes, but often feature one-level living, lowmaintenance exteriors, and amenities such community centers, swimming pools, and fitne Luxury appeals to buyers in the search of higher-en STONE, CLAY move-up and luxury homes. These homes often have larger square footage, unique architectural details, premium materials and finishes, and advanced technology and amenities. **CONCRETE, BRICK AND STONE** AND ROCK **FABRICATION PRODUCTION** COMMERCIAL REAL ESTATE General. Commercial real estate (CRE) is real estate (i.e., land or buildings) intended to generate a profit either from capital gains or rental income. Also known as commercial property, investment property or incom property, CRE includes office buildings, medical center, hotels, shopping malls, retail stores, multifamily housin buildings, farmland, warehouses, and parking garages. **CRUDE OIL AND** Commercial Real Estate Categories. CRE is common divided into seven categories: COMMERCIAL DISTRIBUTION **MATERIALS NATURAL GAS** Multifamily: includes apartment complexes or high-rise apartment buildings. Generally, anything larger than a fourplex is considered commercial real estate. Office buildings: includes single-tenant properties, small professional office buildings, downtown skyscrapers, and everything in between. Retail Shops/Restaurants: includes pad sites on highway frontages, single-tenant retail buildings, inline multi-tenant retail, small neighborhood shopping centers, larger community centers with grocery store. **PETROCHEMICAL** REAL ESTATE DEVELOPMENT **TRANSPORT AND** PRODUCTION AND PRODUCTS MANUFACTURING MARKET **TRANSPORT** REFINEMENT **COMMERCIAL ENTERPRISES** centers, larger community centers with grocery stori anchor tenants, lifestyle centers that blend both indoo and outdoor shopping, "power centers" with larg anchor stores such as Best Buy, PetSmart, OfficeMax and shopping malls that usually house many indoo stores. Industrial: includes manufacturing plants, warehouses large R&D facilities, cold storage, distribution centers and data centers. **GLASS AND WINDOW** Hospitality: includes hotels, public houses, restaurants cafes, stadiums, sports venues, nightclubs, amusemen parks, and movie theaters. Healthcare: includes medical centers, hospitals SAND PRODUCTION MAKING nursing homes, and dispensaries. Education: includes schools, colleges, and universities Hard infrastructure encompasses physical systems th are critical to running a modern, industrialized economy including transport systems such as roads and highway and telecommunications services, such as telephone an **ELECTRICAL GOODS, TOOLS, ELECTRICAL AND HEAVY MACHINERY AND** The key sectors in the hard infrastructure construction market are: Railways and Subways (e.g., structures, buildings, land, and equipment to support the rail lines) Roads (e.g., highways, public roads, including toll roads, tunnels, and bridges) Electricity and Power (e.g., coal-, nuclear- and gasfired electrical generation facilities, solar and wind energy farms, hydroelectric facilities, and distribution networks) Water and sewerage (e.g., sewers, water treatment plants, pumping stations, reservoirs, and distribution systems) Airports (e.g., hangars, terminals, control towers, runways, and parking garages) Prisons Street lighting **OTHER COMPOENNTS WORK VEHICLE ASSEMBLY PRODUCTION INFRASTRUCTURE GOVERNMENT CONCESSIONAIRES,** FRANCHISEES AND LICENSEES **DEVELOPMENT MARKET** cintra ferrovial terrovial terrovial cintra ferrovial ferrovial ferrovial LAND OWNERSHIP LOT DEVELOPMENT

Markets Upstream Midstream Downstream The Midstream sector encompasses the construction of residential homes, commercial real estate buildings and facilities, and infrastructure. The construction industry is a vital part of the U.S. economy, accounting for 4.3% of U.S. Gross Domestic Product (GDP) by itselft, ranking twelfth amongst all industries. As of January 2023, the U.S. Construction market was valued at \$1.96 trillion. Approximately 7.8 million people are employed by the Construction industry (2.9% of the U.S. workforce), including employees and workers of general contractors, subcontractors, government agencies, architectural and engineering firms, and lenders and title insurance companies. The largest industry, which contributes to 13% of the GDP. 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The building and construction industry relies heavily on the transportation and distribution/dealer sector, which are vital in acquiring, financing, transporting, and warehousing the raw materials and finished building materials, heavy equipment, tools, and vehicles and moving them to construction sites. Leading players in key segments of the Upstream sector are: Schnitker Steel, Commercial Metals Materials fabricators: Novelis, Norsk Hydro Heavy Equipment Makers: Caterpillar, John Deere Tool Companies: Illinois Tool Works, Stanley Black & Decker, Makita, TTi (Milwaukee) Transportation Companies: Union Pacific, BNSF, CSX, Norfolk Southern Ostronomerous Transporting and vehicles and moving them to construction sites. and Materials and Equipment. The upstream sector of the building and construction industry focuses on land, materials and equipment used to build Three Markets. The building and construction industri Three Markets. The building and construction industry serves three consumer markets: (1) homebuilding for single-family residences, (2) commercial real estate for business enterprises, such as retail stores, office buildings, multifamily residential developments, hospitals, and industrial facilities, and (3) infrastructure, which entails the construction of large-scale public works of a government or business enterprise, such as roads, bridges, airports, and utility systems. The industry consists of three sectors: upstream (land, materials and equipment), midstream (construction), and downstream (sales and financing). construction industry focuses on land, materials and equipment used to build nomes, buildings and infrastructure. Land Acquisition and Lot Development. This sector involves purchasing undeveloped land that will be developed into finished lots for residential and commercial building construction, obtaining permits, sub-dividing land into parcels, and grading and clearing the land. Raw Materials. Various raw materials are used in the building and construction industry, such as metal, trees, stone, crude oil, and sand that will ultimately be fabricated or refined into building materials (e.g., aggregates, bricks, forming systems, cement, plastics, ceramic facing and floor tiles, composites, glass, metal, asphalt, precast concrete, sealants, paint and coatings, adhesives, and metal, asphalt, precast concrete, sealants, paint and coatings, adhesives, and INDIVIDUALS HOMEBUILDING PRODUCTION FABRICATION AND ASSEMBLY General. The homebuilding market in the U.S. consists on the construction and sale of residential homes acros Home Sales Entry-level Home Consumption Metal Structural Steel and Other Metal Materials Move-up Construction Home Insurance the country. Geographic Markets. The U.S. homebuilding market is subdivided into multiple regions: Northwest, West Southwest, Midwest, South Central, Northeast, East, and Southeast. Homebuyer Categories. 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These homes may be smaller than traditiona homes, but often feature one-level living, low-maintenance exteriors, and amenities such Concrete, Brick and Stone community centers, swimming pools, and fitne Stone, Clay and Rock <u>&§</u> Luxury appeals to buyers in the search of higher-er ₹<u></u> move-up and luxury homes. These homes often have larger square footage, unique architectural details premium materials and finishes, and advanced technology and amenities. COMMERCIAL ENTERPRISES Property Leasing/Management Commercial Insurance COMMERCIAL REAL ESTATE LEASE General. Commercial real estate (CRE) is real estate (I.e., land or buildings) intended to generate a profit either from capital gains or rental income. Also known as Crude Oil and Natural Gas Petrochemical Products commercial property, investment property or incomporty, CRE includes office buildings, medical center-notels, shopping malls, retail stores, multifamily housing uildings, farmland, warehouses, and parking garages. ommercial Real Estate Categories. CRE is common vided into seven categories: Multifamily: includes apartment complexes or high-rise apartment buildings. Generally, anything larger than a fourplex is considered commercial real estate. Office buildings: includes single-tenant properties, small professional office buildings, downtown skyscrapers, and everything in between. Retail Shops/Restaurants: includes pad sites on highway frontages, single-tenant retail buildings, inline multi-tenant retail, small neighborhood shopping centers, larger community centers with grocery store centers, larger community centers with grocery stori anchor tenants, lifestyle centers that blend both indoo and outdoor shopping, "power centers" with larg anchor stores such as Best Buy, PetSmart, OfficeMax Glass and Windows and shopping malls that usually house many indoor Industrial: includes manufacturing plants, warehouses large R&D facilities, cold storage, distribution centers and data centers. Hospitality: includes hotels, public houses, restaurants cafes, stadiums, sports venues, nightclubs, amusemen parks, and movie theaters. Healthcare: includes medical centers, hospitals ___ nursing homes, and dispensaries. Education: includes schools, colleges, and universitie lЯn Electrical and Other Components Electrical Goods, Tools, Heavy Machinery, Vehicles INFRASTRUCTURE GOVERNMENT CONCESSIONAIRES, FRANCHISEES, AND LICENSEES INFRASTRUCTURE are critical to running a modern, industrialized economy Transportation including transport systems such as roads and highway and telecommunications services, such as telephone ar The key sectors in the hard infrastructure constructio The key sectors in the hard infrastructure construction market are: • Railways and Subways (e.g., structures, buildings, land, and equipment to support the rail lines. Roads (e.g., highways, public roads, including toll roads, tunnels, and bridges) • Electricity and Power (e.g., coal-, nuclear- and gasfired electrical generation facilities, solar and wind energy farms, hydroelectric facilities, and distribution networks) • Water and sewerage (e.g., sewers, water treatment plants, pumping stations, reservoirs, and distribution loants, pumping stations, reservoirs, and distribution O B <u>હપ</u>્ Utilities water and sewerage (e.g., sewers, water treatment plants, pumping stations, reservoirs, and distribution systems) Airports (e.g., hangars, terminals, control towers, runways, and parking garages) Prisons Street lighting REAL PROPERTY Street Lighting **Pipelines** Container Ports Land Ownership Lot Development Fees and Royalties

Markets nree Markets. The building and construction indus dings, multifamily residential developments, hospita d industrial facilities, and (3) infrastructure, which tails the construction of large-scale public works of vernment or business enterprise, such as road dges, airports, and utility systems. The industrial General. The homebuilding market in the U.S. consists on the construction and sale of residential homes across

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- Entry-level or First-time Homebuyers on a tigl budget. Because buyers are focused on affordabilit these homes are typically smaller in size and have basic finishes and féatures
- Move-up Buyers, who are looking to upgrade from their first home to a larger, more luxurious residence his category of buyer accounts for the majority of These homes often have more square Active Adult focuses on older homebuyers who a
- looking for homes that cater to their unique lifestyl needs. These homes may be smaller than traditional homes, but often feature one-level living, low Luxury appeals to buyers in the search of higher-e
- move-up and luxury homes. These homes offen have larger square footage, unique architectural details premium materials and finishes, and advanced

ther from capital gains or rental income. Also known mmercial property, investment property or incom operty, CRE includes office buildings, medical center tels, shopping malls, retail stores, multifamily housin ldings, farmland, warehouses, and parking garages.

- apartment buildings. Generally, anything larger than fourplex is considered commercial real estate. Office buildings: includes single-tenant properti small professional office buildings, downto skyscrapers, and everything in between.
- Retail Shops/Restaurants: includes pad sites nighway frontages, single-tenant retail buildings, inlii multi-tenant retail, small neighborhood shoppii enters, larger community centers with grocery st
- chor tenants, lifestyle centers that blend both indo large R&D facilities, cold storage, distribution center
- Hospitality: includes hotels, public houses, restaurani cafes, stadiums, sports venues, nightclubs, amuseme
- parks, and movie theaters. Healthcare: includes medical centers hospita

re critical to running a modern, industrialized econom duding transport systems such as roads and highway ne key sectors in the hard infrastructure construction

- Electricity and Power (e.g., coal-, nuclear- and ga fired electrical generation facilities, solar and wir
- systems)
 Airports (e.g., hangars, terr runways, and parking garages)
 Prisons hangars, terminals, control towe

omes, buildings and infrastructure.

Land Acquisition and Lot Development. This sector involves purchasing undeveloped land that will be developed into finished lots for residential and commercial building construction, obtaining permits, sub-dividing land into parcels, and grading and clearing the land. law Materials. Various raw materials are used in the building and construction

industry, such as metal, trees, stone, crude oil, and sand that will ultimately be fabricated or refined into building materials (e.g., aggregates, bricks, forming systems, cement, plastics, ceramic facing and floor tiles, composites, glass, ietal, asphalt, precast concrete, sealants, paint and coatings, adhesives, and

Railroads

CSX

CPKC

Truck Lines

J.B. HUNT

XPOLogistics

FedEx

KNIGHT **

SWIFT

YRC

Ship Lines & Barges

TIDEWATER

Cooper/T.Smith

PARKER

Air Freight Carriers

Expeditors

red

King Ranch Hein

Freight

REAL PROPERTY

FORESTAR 🕢 📗

PRODUCTION

Metal

RioTinto Alcai

Hydro

▲ Weyerhaeuser 🔎

GPA Georgia-Pacific

Lehigh Hanson

ConocoPhillips

Shell

OXY

devon

57

onsemi

M BROADCOM

SAMSUNG

nfineon

Exynos Auto

RENESAS

□ NIDIA

Bill Gates Family Stan Kroenke

Ted Turner

NUCOR'

CLIFFS en

Steel Dynamics

CANFOR

Stone, Clay and Rock

LAFARGE HILL Oldcastle

Natural Gas Processors

Shell ConocoPhillip

Crude Oil Refiners

PHILLIPS 66

Mobil MOTIVA

KINDER MORGAI

7 Midstream

₡K40CER

KEMET

press

VISHAY.

Williams. E ENERGY TRANS

Ex/onMobil

🏶 ONEOK 📜

COVIA

BADGER MINING CORPORATION

= TE

🌣 ітт

Panasonic.

Amphenol

► ANALOG DEVICES

BOURNS

公TDK

DIODES

Land Ownership

Reed Family Singleton Family

nexperia

Electrical and Other Components

INTERFOR

United States Steel

RYERSON (USS) United States Steel

• Weyerhaeuser

OACM RYERSON

Upstream

Aluminum Products

ALSCO.

Novelis

PETERSON

LASTI CHEMIE

Asphalt and Roofing

Johns Manville

MI.

ertainTeed

stry relies heavily on the transportation and bution/dealer sector, which are vital in acquiring, cing, transporting, and warehousing the raw materials finished building materials.

Structural Steel and Other Metal Materials

Tenaris

NUCOR'

Lumber and Timber

Concrete, Brick and Stone

Classic Packaging Company

General Shale

Petrochemical Products

INEOS

□-BASF

BOREALIS

Electrical Goods, Tools, Heavy Machinery, Vehicles

KOMATSU

JOHN DEERE

VOLVO

Ford W

thyssenkrupp Schindler

SAMSUNG

ULG

Whirlpool

Electrolux

Haier

Milwank

SAOBI

Chemicals/Plastics

ExonMobil

Shell

LYB

MOHAWK NOVA Chemicals

Optical Fiber

CORNING **mi**

SIEMENS CATERPILLAR®

FAT•N

PHILIPS

IDAHO FOREST

Materials fabricators: Novelis, Norsk Hydro

Fastenal, thyssenkrupp, United Construction

Forming Systems

Western Forms

meva

CANFOR

Georgia-Pacific

Stone and Quartz

Lehigh Hanso

Paint/Coatings

NIPPON PAINT

AkzoNobel 💃

Benjamin Moore

□ · BASF

JELDWEN Andersen W

CEMEX

Vulcan Martin

CRH

Finished Materials

Reynolds **W**

Alro Steel
Metals • Industrial Supplies • Plastics

ULINE

RYERSON

Metalwest

Electrical Products

GRAINGER

wesco

GraybaR.

TEREX.

N

TTI

IN RAM

TD SYNNE)

Heavy Machinery and

Work Vehicle Dealers

/// WAGNER CAT

United Rentals

SUNUSTATE

RITCHIE BROS.

UNITED

loyees and workers of general contractors, contractors, government agencies, architectural and firms, and lenders and title insurance

LENNAR

Clavtor

SIMON®

GREYSTAF

Real Estate

Real Estate

Income Trust

Ascension

Health

HARRISON STREET GREYSTAR

scion

LANDMARK

Residential Construction: D. NVR, Taylor Morrison, Toll Br Construction Lenders: Bank OZK, Goldn Fargo Bank, UMB, Starwood Property Trust

NVR

America's Builder

Toll Brothers (12 WOO)

General Contractors

FLUOR

AECOM

HOTELS & RESORTS

REMANN
THIS RESORT PROPERTY THE PROPERT

Quarterra

Toll Brothers

HOMES

COMMERCIAL REAL ESTATE

Multifamily

Brookfield

Properties

PROLOGIS

≥ KIMCO

Meritage

ontractor), or utility owner. In other words, sector focuses on the sale, renting and leasing of nes and commercial real estate and the

Home Sales

Realty Agencies

Bank of America

1111

Property Brokerage

Home Insurance Home Consumption

& StateFarm



Mutuál **PROGRESSIVE**

Downstream

GEICO Nationwide TRAVELERS



Appliance Retailers amazon wayfai:

Bassett

ROOMS TO GOD IKEA

Property Management TRANSWESTERN Steelcase *sodexo* HAWORTH

















Operation and Maintenance





exelon* **EDISON** Sempra Energy **NEXTera ENERGY**

Turner

Lifepoint Health

HCA

INFRASTRUCTURE

® Kiewit

FLUOR_®

AECOM

Balfour Beatty

SKANSKA

NORFOLK SOUTHERN

xfinity LUMEN COX.

(SoCalGas

Hilton INTERCONTINENTAL CoreCivic LASALLE 600 Midstream.

PLAINS
ALL AMERICAN
PIPPLINE, L.P.

GOVERNMENT CONCESSIONAIRES, FRANCHISEES, AND LICENSEES

AT&T

DUNLOP

DUKEENERGY

DTE 📤 Southern Company verizon **T** Mobile

KINDER MORGAN ENERGY TRANSFER

Consumption

Markets

General. The homebuilding market in the U.S. consists on the construction and sale of residential homes acros

he country. subdivided into multiple regions: Northwest, West Southwest, Midwest, South Central, Northeast, East, and

Homebuyer Categories. Homebuilders market and sell oroad range of homes to discrete categories comebuyers, including:

- Entry-level or First-time Homebuyers on a tigh budget. Because buyers are focused on affordability these homes are typically smaller in size and hav basic finishes and features.
- Move-up Buyers, who are looking to upgrade from their first home to a larger, more luxurious residence. This category of buyer accounts for the majority of home sales. These homes often have more square footage, higher-quality finishes, and more amenities than entry-level homes.

 Active Adult focuses on older homebuyers who are looking for homes that cater to their unique lifestyle needs. These homes may be smaller than traditional homes, but often feature one-level living, low-
- maintenance exteriors, and amenities such a move-up and luxury homes. These homes often have larger square footage, unique architectural details, premium materials and finishes, and advanced

ithér from capital gains or rental income. Also known a ercial property, investment property or incom ty, CRE includes office buildings, medical center tels, shopping malls, retail stores, multifamily housi ildings, farmland, warehouses, and parking garages.

Multifamily: includes apartment complexes or high-riapartment buildings. Generally, anything larger than fourplex is considered commercial real estate

- Office buildings: includes single-tenant propertie small professional office buildings, downtow skyscrapers, and everything in between.
- Retail Shops / Restaurants: includes pad sites or highway frontages, single-tenant retail buildings, inline multi-tenant retail, small neighborhood shoppinc centers, larger community centers with grocery store anchor tenants, lifestyle centers that blend both indoor and put details the store of the stor and outdoor shopping, "power centers" with larg anchor stores such as Best Buy, PetSmart, OfficeMa
- Industrial: includes manufacturing plants, warehouse large R&D facilities, cold storage, distribution center and data centers. Hospitality: includes hotels, public houses, restaurant cafes, stadiums, sports venues, nightclubs, amusemen
- Healthcare: includes medical centers, hospital
- Education: includes schools, colleges, and universities

are critical to running a modern, industrialized econom duding transport systems such as roads and highway munications services, such as teleph he key sectors in the hard infrastructure construction

- Railways and Subways (e.g., structures, buildings land, and equipment to support the rail lines) Roads (e.g., highways, public roads, including tol roads, tunnels, and bridges)
- roaus, tunnets, and bridges) Electricity and Power (e.g., coal-, nuclear- and gas-fired electrical generation facilities, solar and wind energy, farms, hydroelectric facilities, and distribution
- water and sewerage (e.g., sewers, water treatmen plants, pumping stations, reservoirs, and distributior systems) Airports (e.g., hangars, terminals, control towers runways, and parking garages) Prisons Street lighting

ones, buildings and infrastructure.

Land Acquisition and Lot Development. This sector involves purchasing undeveloped land that will be developed into finished lots for residential and ocurement of heavy construction equipment (e.g., Ildozers, excavators, and cranes), tools such as drills, commercial building construction, obtaining permits, sub-dividing land into parcels, and grading and clearing the land.

Raw Materials. Various raw materials are used in the building and construction

Railroads

Top Railroads

BNSF Railway

Union Pacific Railroad

CSX Transportation

Norfolk Southern Railway

Canadian Pacific/Kansas Cit

products, includir lumber and other

construction panels, such a wood particle, which is used

wood particle, which is used it make furniture. Each year, U.S railroads haul approximatel 420,000 carloads of lumbe and wood products. Lumber i shipped on center bear flatcars, which can carry closs the content of t

to 200,000 pounds of lumbe or other construction materia such as wallboard. One cente

neam can carry enough raming lumber for five and one—half new homes. Steel and Other Metals.

teel scrap, and coke that a sed to make steel, which

Railroads also move stee slabs, concrete reinforcing bars, and various kinds of pipe used for construction projects To meet the growing needs o

bars, and various aniso on pipe used for construction projects. To meet the growing needs of manufacturing and construction industries; and construction and co

Other Transport

Top Trucklines

JB Hunt Transport Services

XPO Logistics

Knight-Swift Transport Service

YRC Worldwide

Trucks. Trucks carry all types of goods, ranging from premium products (vehicles) to high-value commodities (electronics and mixed freight such as grocery and

such as grocery and convenience store goods office supplies, hardware, and olumbing items) and bulk

eams, concrete slabs, pipes

aterials. Vehicle carrie

Barges and Planes

Barges Barges are used fo

er barge transportation, i

Although no

ties (gravel, grains,

industry, such as metal, trees, stone, crude oil, and sand that will ultimately be fabricated or refined into building materials (e.g., aggregates, bricks, forming systems, cement, plastics, ceramic facing and floor tiles, composites, glass,

netal, asphalt, precast concrete, sealants, paint and coatings, adhesives, and

Kev Steel Players

PRODUCTION

Metal

construction due to their durability and strength to form structural components, pipework, cladding materials, and other components. The most widely used material in construction is steel, which is an alloy made using iron, followed by aluminum, lead, iron, and copper (including brass). Metals are produced in their crude or primary prom before being processed by fabrication companies (or divisions of the primary producer) into usable

Hardwoods are commonly used in the construction of walls, ceilings, beams, and floors. Oak is the most popular because it is extremely durable and insect-resistant. Wood is energy efficient. Its ability to conduct heat makes it a better insulator than steel (400 times) and concrete (15 times). Outside of making houses, wood is used to make furniture, packaging, tools, and artwork.

Stone, Clay and Rock

Quarried Materials

quarry is an open-pit mine Quarried Materials sed to extract natural stone or produce building stone or mension stone. In articular, stone, prock, prap, sand, construction of Common, China & Ball Clays

ound in order to use them produce material for instruction or other uses.

Materials/Oldcastle Materials | Materials/Oldcastle Materials | Materials |

Crude Oil and Natural Gas

ompanies in this Refiners and Processors. Refiners ector focus on acquire millions of barriers for crude oil xploring for, and and natural gas from exploration and roducing (by drilling production companies. The incoming in hydraulic fracking), oil and gas are then transported by rude oil and natural pipelines to large storage tanks near ass from wells (i.e., the refineries, before Being sent to orings) on land and refineries (crude oil) and processing fishore in resource-plants (natural gas). There are 138 cit regions of the US. refineries, many of which are ord. The crude oil located along the Gulf of Mexico. In an and the refineries crude oil, and hen transported to oil processing plants separate natural efineries at the well or gas, into usable products for end o nearby oil refineries consumption such as (a) dry gas for on gas processing heading and generating electricity, (b) lants.

Producers: Exxon Mobil, hevron, bp, Conoco, Shell (i.e., the natural gas liquids (NGL:

nary materials in glass are soda, limestone, Holdings iffying agents, coloring, and glistening glass. Production process consists of melting raw

aterials in a furnace, cooling the river of glass
Mining
hich will often be nearly 300 meters in length,
titing the cooled glass into large sheets.

MS

Semiconductor Makers

nfineon Technologies TSMC Qualcomm Renesas Electronics STMicroelectronics

Computers on Wheels. Modern vehicles and neavy machinery are loaded with over 1,400 semiconductors (or integrated circuits or chips) that partially conduct electricity and power things such

conduct electricity and power things such as connectivity and control systems, tire pressure monitoring systems, infotaniment systems, and vehicle-to-everything systems to power cameras, telematics and battery electrification systems, to name a few. As a result, they are often referred to as computers on wheels. TSMC, with its 54% market share, produces 10,000+ products for some of the biggest automotive semiconductor fabricators who have their own fabrication facilities, like Infineon, Qualcomm, MyR, 5TMicroelectronics, and Texas Instruments, but choose to outsource some of their production to

one. Holdinas

Other

Component Makers:

Electronic

Computer Networking

Metals are commonly used in construction due to their durability

e primary producer) into usable omponents and materials.

Upstream

teel is a critical material for

forcing bars within concrete

umber (interchangeable with mber) is an essential material due

ilized as temporary support for rming systems for concrete.

(often confused with

Processors Chevron Phillips

lyondellbassell Chemical

Dow Chemical

Flectrical Goods

Phillips

Chemical '

Skylights to allow light into a TTI
structure while excluding the elements. Glass floors and Staircases can add an aesthetic touch. Glass is the core element of many fiber optic systems. Glass is also heavily utilized for fiberglass | JELD-WEN

a versatile material with Key Players

Heavy Machine

Caterpillar

Volvo Kubota

Komatsu

workability. It is d for residentia

and finished building materials, heavy equipment, tools, and

Structural Steel and Other Metal Materials

BTD Mfq.

Tenaris

Timken

Richardson Metals

Lumber

Key Players

Weyerhaeuser

Canfor

Interfor

Concrete, Brick and Stone

R.W. Sidley

Plasti-Chemie NA

Easi Set

Bunker Filter Media

Building Supplies

Petrochemical Products

Petrochemical

Electrical Goods, Tools, Heavy Machinery, Vehicles

Annliance Maker

Samsung

LG Haier

Whirlpool

Electrolux

Georgia-Pacific that sandwich a gyp

Rebar, Wire Rods

Facades, Plates

Pipes, Air Ducts

Aluminum Forms

Product Categories

Beams

Cabinetry, Flooring, Furn

Drywall (aka wallboard or n

Product Categories

Precast Concrete Structu

Industrial Minerals

Key Paint Players

PPG

AkzoNobel

Nippon Paint

Benjamin Moore

BASF

Paint is used construction as

Product Categories
Windows

Walls

Facades

Fiber Optic Cable

Fiberglass

Stanley Black & Decker

ITW T

Makita

Emerson

Bosch

Raw materials producers: U.S. Steel, Schnitker Steel, Commercial Metals
 Materials fabricators: Novelis, Norsk Hydro

- Transportation Companies: Union Pacific, BNS
- Fastenal, thyssenkrupp, United Construction

Finished Materials

sing services, I s, all forms of fabi

ninum and nonferrous meta ducts, and plastics t tractors. They also provic ehousing and logistic service uding end-to-end inventor

Kev Players

ThyssenKrupp, MSC Industrial

onsumer Products, Alro Stee

Concrete Materials

Key Players

Urvi Enterprise

Atlantic Equipment

GCP Applied Technologies

ruction material distribution distribution material distribution distr

Flectrical Products

Kev Players

Grainger

Wesco

Terex

leading electrical distrib

ruction and utilities markets

Product Categories

Lighting & Electrical

Cleaning & Janitorial

Plumbing & Pumps

Metalworking & Fabrication

Motors & Power Transmission Pneumatics & Hydraulics

Material Handling

Tapes, Adhesives, Lubricants

Safety & Security

ab, Office & Hospitality Supplie

Heavy Machinery &

Work Vehicle Dealers

HEAVY MACHINERY AND WORK

he Midstream sector encompasses the construction of issidential homes, commercial real estate buildings and iscillities, and infrastructure. The construction industry is a lial part of the U.S. economy, accounting for 4.3% of U.S. ross Domestic Product (GDP) by itselft, ranking twelfth mongst all industries. As of January 2023, the U.S. onstruction market was valued at \$1.96 trillion proximately 7.8 million people are employed by the proximately 7.8 million people are employed by the onstruction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction industry (2.9% of the U.S. workfore), including the construction in the construction in the U.S. workfore), including the construction in the U.S. workfore) in the construction in the U.S. workfore the construction in the U.S. workfore the U.S. workfore the construction in the U.S. workfore the U.S. workfore the construction in the U.S. workfore the construction in the U.S. workfore the U.S. workfore the construction in the U.S. workfore the construction in the U.S. workfore the U.S. wo ployees and workers of general contractors, contractors, government agencies, architectural and

Pre-construction

Multifamily

Retail

Top Mall Owners

SITE Centers Kimco Realty

Top Office Owners

Duke Realty

Blackstone Group

Simon Property Group Strip Malls/Shopping Centers

Office Categories

Class A, B and C Office Buildings

Hotels, water parks, casinos amusement parks, stadiums

Alliance Residential Co

ebuilding involves land acquisition, development, and

Site Selection/Feasibility Study

though commercial retail property covers broad territory, the most well-known ategory is the shopping mall, where real state investment companies (REIS) dominate the landscape. Simon Property Group, Brookfield Properties, and SITE Centers Corp. manage over 500 million

Construction

The homebuilding construction phase encompasses activities from break ground to the substantial completion of the home, and the steps to obsubcontractor support, labor and financing:

bcontractors, government agencies, architectural and gineering firms, and lenders and title insurance Fargo Bank, UMB, Starwood Property Trust

D.R. Horton

Lennar

PulteGroup

NVR

Bank of America

Citibank

Chase Bank

Ultimate Ownership: homebuilding, the home built by a developer with t

ntent to sell it to an individu

ouver, who will be the ultima

owner. In commercial re estate, the developer will him

construct the facility. The developer retains ownersh and will lease the complete

property to (a) individuals in the case of multifamily housing or (b) commercial enterprises. The develope

ommercial real estate in the sture, but the buyer will be

nmercial real investme

Top Construction Firms

Skanska Gilbane

Fluor AECOM

JE Dunn Whiting-Turner

Turner Bechtel

DPR Construction

onstruction Process: As wit

activities, selection of general contractor (which v

select the needed sul

contractors), construction

ouilding or physofrastructure. BIM has become

entails land

levelonment

developm

and design

may choose to sell

construction

Taylor Morrison Key Construction Financing Lenders onsored contractor), of duling writer, in which is a sector focuses on the sale, renting and leasing of mes and commercial real estate and the aintenance and furnishing of these properties and insurance Companies: Nationwide, USAA, Allstate, State Farm Home Sales Homeowners Insurance

lelling a home involves four essential steps:
Finding a real estate agent to list the home on a nilne service (e.g., Multiple Listing Service or MLS tage, the home to look its best, and facilitat egotiations for the sale of the home at the higher rice in exchange for a comprission of up to 6%.
Review and negotiate offers from several buyers. Accept an offer and work through any contingencie buyer may insist on a home inspection, appraisal an nancing contingencies).

Coldwell Banker, KKR, HomeServices of America

Key Title Insurers American Title, Old Republic National Title, Chicago Title, Fidelity National Title, Stewart Title Guaranty, DHI Title Agency

Leading players of key Downstream segments are:

Residential Real Estate Brokers/Leasing Agents: Coldwell Banke Real Estate, Century 21, RE/Max, Keller Williams Real Estate

Commercial Real Estate Brokers/Leasing Agents and Propert Managers: CBRE, Jones Lang LaSalle (JLL), Cushman & Wakefield Sodexo, Walker & Dunlop

Infrastructure Operation and Maintenance: Ferrovial/Cintra, Kiewil

Downstream

omeowner's insurance (also known as

Appliances. To assist with daily tasks of the cooking, washing dishes, drying lothes, and preserving fresh food, it will be necessary for the homeowner to buy home appliances (if the homebulider did not include appliances as part of the home sale). In 2022, the average household spent \$354 on major appliances (refrigerator, freezer, washer, dryer, cookiop, oven) and \$135 on small household appliances (microwave

Workplace Furniture

Orkplace furniture is designed

not covered by commercial property insurance, unless those perils are added to the policy. If safeguarding physical structures from perils is no enough for real estate owners property managers and REITs, the must also insure against liabilit

Key Commercial Real Estate

Top Commercial Insurers: Nationwide, Liberty Mutual, CNA, Ti Hartford, Travelers, Chubb, AlG

Hotel Management

The functions of ownership ar operation of hotels are typical

Key Appliance Retailers Best Buy, Home Depot, Mena Lowe's, Sears, Costco Wholes

COMMERCIAL ENTERPRISES Property Management

Facilities Management Services

Energy & Sustainability Certifications

Computerized Maintenance Management

Management Supply Chain Programs

and asset-type expertise to provide or

ne, on-búdget project manager

Top Home Insurers

State Farm Insurance Company

Allstate Corporation

Liberty Mutual Holding, Inc

United Services Automobile Assoc (USAA)

racilities Management. A facilities manager provides day-to-day management servicer flor client-occupied facilities (headquarter for client-occupied facilities) (headquarter

Colliers International Savills Walker & Dunlop

Project Management Services CBRE JLL Newmark Berkadia Transwe Design and Furniture, Fixtures & Equipment (FF&E) Management Lee & Assoc. NAI Global Cushman & Wakefield SVN International Matthew's RF Investment Serv. Marcus & Millichap | Avison Young | TCN Worldwide Stream Realty Partners Coldwell Banker Comm. mmercial real estate companies and brokerage firm

mbining local market insights, specialized expertise, a premier tools and resources. The larger firms with Combining local interest insights, specialized experiese, and premier tools and resources. The larger firms will also offer additional services such as property, project and portfolio management, property appraisal and development, and business consulting. They assist divide the property and programments with their purchasing, selling and leasing requirements. There are hundreds of commercial real

Top Firms Marcus & Millichap Walker & Dunlop

estate.

Top Hotel Managers:
Hilton Worldwide, Wyndham Hotels, N

GOVERNMENT CONCESSIONAIRES FRANCHISEES AND LICENSEES Operation and Maintenance

CBRE JLL

Sleected Toll Road

overnment agency (called the grantor) oncession fees (e.g., rent for the location, a ercentage of the developer's sales revenue a combination of the two) during the life of

TransCore Verra Mobility Transurban Atlantia

gas, and electricity. Local corrections facilities. The U.S government agencies may Bureau of Prisons ha gas, and electricity. Local government agencies may be fresone utility services, but in most instances the local government will grant (franchises to private industry to build, own and operate utility networks (12% of electricity customers nationwide are served by investor-come utilities).

living, such as

vestor-owned utilities).

Land Ownership Lot Development ot development entails the purchasing of land, obtaining any necessary entitlements, permits, and it provals, subdividing the land into parcels, clearing and grading the land, installing the infrastracessary to connect to utilities, building roads, and ultimately selling the finished lots to a development of the connect of the connection of the connect

l active adult and tools are prima luxury homes will appliances such as an oven and stove, dishwasher, microwave, and refrigerator.

| Dower and hot loos are prima used in construct, work to pet this work to pet the work of the construct work to pet the work of the construction of the e financing). The dealer into a dealership agreement levator Makers To move people and freight expediently, multi-story

ill include lifts, escalators, and moving sidewalks.

OTIS | Kone

Key Players

Finning (CAT) United Construction & Forestry

or their size, unique modern or difficial architecture, and high concentration in the downtown areas. Office uildings are broken down into three assifications based on quality: Class A premier), Class B (fully functional), and ass C (fixer-uppers). CBRE Group Hines Jones Lang LaSalle Justrial properties are favored investments cause they provide stable cash flow, low carroy rates, minimal effort, and industrial buke Realty, Prologis, CBRE lands who cover taxes, insurance and intenance. E-commerce firms require licate networks of warehouses and ERIT, Liberty Property Trust

the hospitality sector: tourism and tees travelers. When the economy does or poorly), the hospitality industrial design or poorly), the hospitality industrial design or poorly.

amusement parks, stadium golf courses, cruise ships restaurants, movie theater

I.S. Healthcare facilities are owned nd run by the public and private lector (58% are private norporfic), 21% are overnment-owned, and 21% are private foroit). The Catholic Church is the lord a largest non-government lacenshare provider. In the Catholic Church (Common Spirit Health ord is the largest non-government lacenshare provider. Education op Dormitory Owners

Educational facilities are owned primarily by public institutions. Overall, 54 million students are enrolled in K-12 schools, with 91% in public schools. Construction falls into two categories: K-12 schools and higher education.

Infrastructure Construction and Civil Engineering

Construction Companies

Whiting-Turner

INFRASTRUCTURE

Infrastructure

Telecommunications

Education Categories

Bank OZK UMB Bank

Wells Fargo Bank

esource for information abou facility and for decision taking during the building' e-cycle.

Top Construction Lenders

Starwood Property Trust

Infrastructure projects ca improve lives, creat employment opportunities, an transform local and region of tight public sector budgets

access to private capital, and an ever-expanding requilator, environment can make if difficult to get these projects of the ground. Project finance is the funding vehicle typically used for long-term infrastructure and industrial projects. Project finance is the private sector funding of such

Pipelines

Aqueducts

private sector funding of sucr projects using a non-recourse or limited recourse financia structure, where (1) the deb and equity used to finance the project are paid back from the cash flow generated by the project and (2) the project's assets, rights, and interests are held as collateral.

Management & Trainin

Example: Ferrovial and Cintra. Austin, Texas-based Cintra is an example of a foir road developer. Cintra is one of the world's largest private-sector developers of transportation infrastructure, with business activities concentrated in foil highways and car park concessions in Canada, the U.S, Europe (Spain, Portugal, the U.K, and Ireland), Australia, and Colombia. Cintra manages over f,880 kilometers of toll roads in 204 countries. Cintra is owned by Madrid, Spain-based Ferrovial S.A., which engages in the investment and development of transportation infrastructures. The company Top Telcos: AT&T. Verizon.