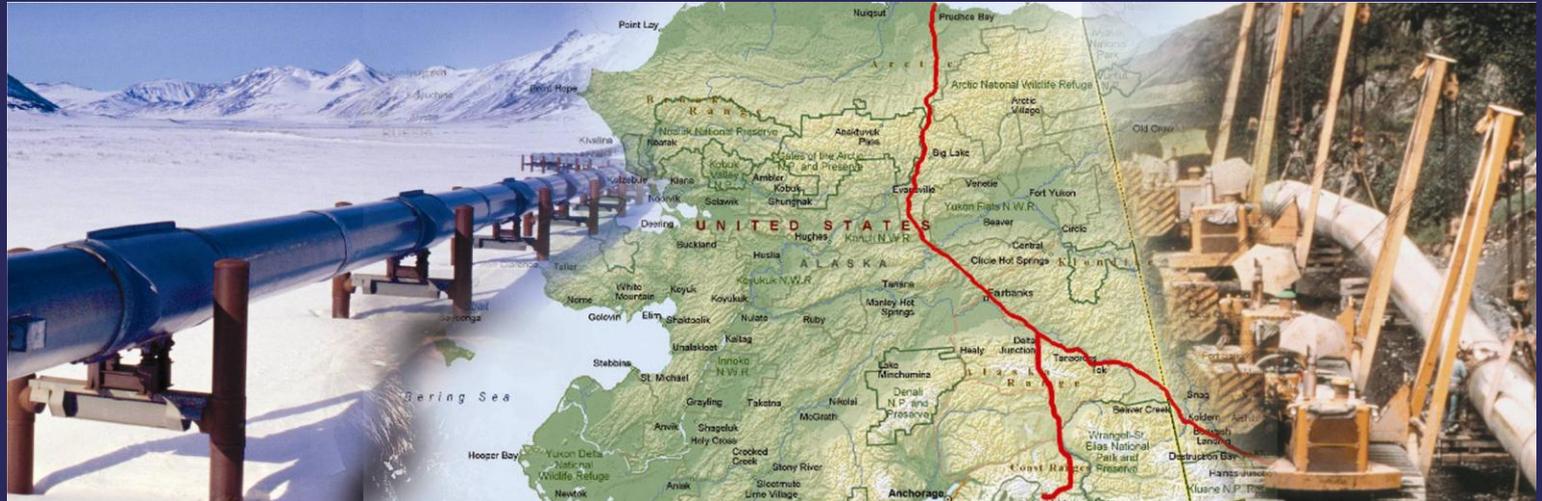
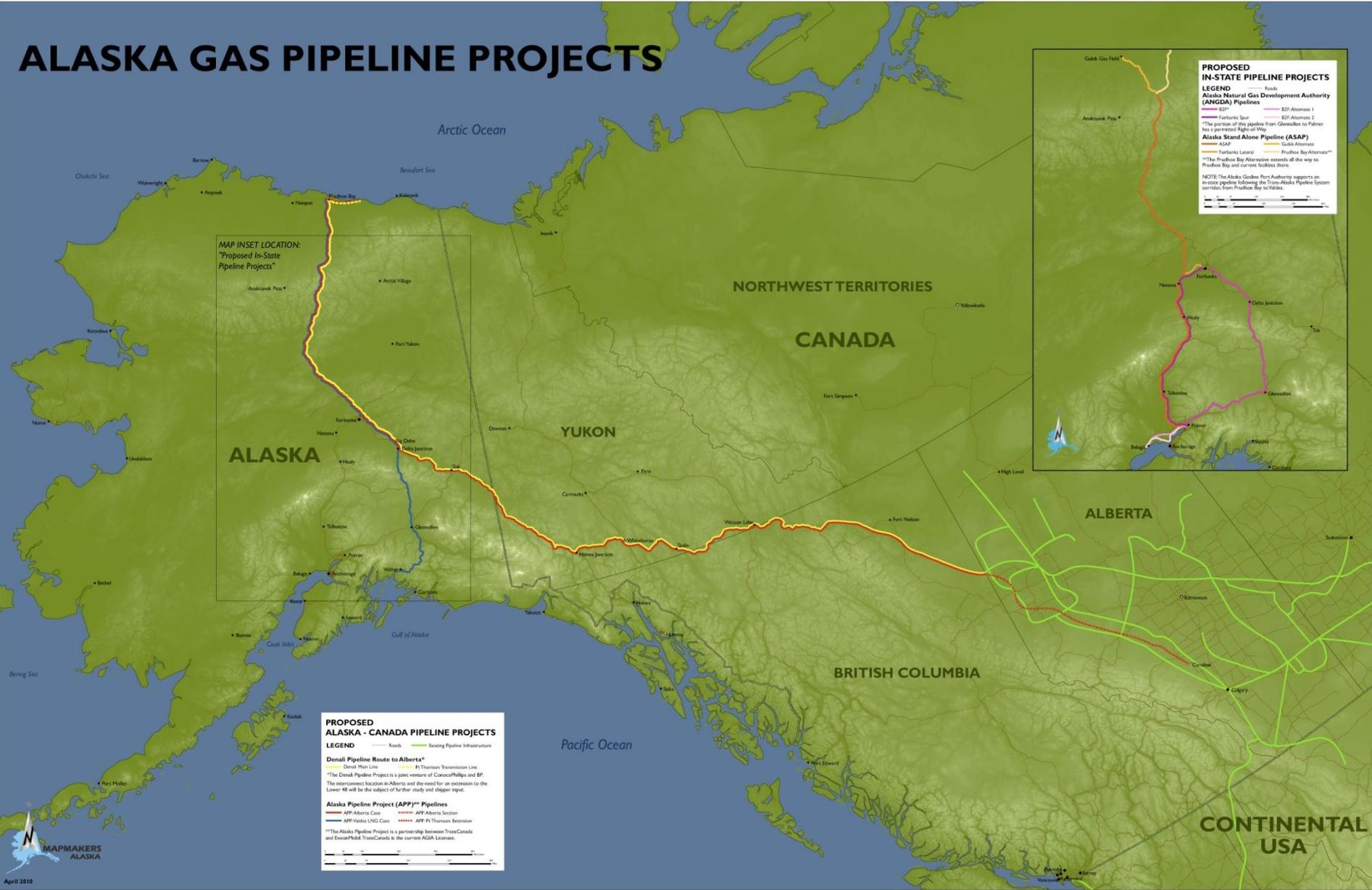


# The Alaska Natural Gas Pipeline A Federal Update



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May 4, 2010

# ALASKA GAS PIPELINE PROJECTS



# OFC Objectives

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- ❖ Streamline Permitting Process
- ❖ Eliminate Delays and Associated Costs
- ❖ Limit unnecessary permit conditions
- ❖ Coordinate Inspections and Monitoring

# OFC TASKS

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- ❖ Coordination
- ❖ Compliance
- ❖ Reliable Information Source

# Coordination

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- ❖ Federal Agencies/Administration Officials
- ❖ State of Alaska
  - ❖ DNR, DEC, DOT&PF, DOL, AG, Fire Marshal
  - ❖ Surveillance and Monitoring Agreement
  - ❖ In-State Proposals
- ❖ Canada
  - ❖ Engagement with government authorities
- ❖ Project Applicants
- ❖ Stakeholders
  - ❖ Municipalities, NGOs, Alaska Natives, Businesses

# U.S. Federal Agencies

- **Office of Federal Coordinator**
- **Council on Environmental Quality**
- **Federal Energy Regulatory Commission**
- **Department of Interior**
  - BLM
  - BIA
  - FWS
  - MMS
  - NPS
  - USGS
- **Department of Energy**
- **Department of Transportation**
  - FHWA
  - PHMSA
  - FAA
- **Department of Treasury**
- **Department of State**
- **Department of Defense**
  - U.S. Air Force
  - USACE
- **Department of Commerce**
  - NOAA
  - NMFS
- **Department of Homeland Security**
  - CBP
  - TSA
  - USCG
- **Department of Labor**
- **Environmental Protection Agency**
- **Department of Agriculture**
- **Advisory Council on Historic Preservation**
- **Department of Justice**
- **Federal Communications Commission**

# Compliance

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- ❖ Ensure agencies meet timelines
- ❖ Ensure unnecessary conditions that would delay the project are not imposed
- ❖ Monitor construction

# Reliable Information Source

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- ❖ Source of timely, reliable information about the project and related issues
- ❖ Website: [www.arcticgas.gov](http://www.arcticgas.gov)
  - ❖ Fact Sheets
  - ❖ Project Maps

# OFC Work

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- ❖ Gap Analysis
- ❖ Consolidated Implementation Plans
- ❖ GIS Prototype Collaborative Effort
- ❖ Permit/Authorization Matrix
- ❖ Technical Team
- ❖ Issues Waterfall (GHG, HIA, SHPO)

# One example: Mapping

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- Agencies use different sets of sometimes incompatible data and systems when studying the pipeline route.
- Lacking a good, authoritative base map as a reference for developers and agencies during permitting.
- Difficult for public to understand data from multiple sources.
- The challenge is to bring everyone together to use the same data.



# GIS prototype initiative

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- A sophisticated GIS-based map (geographic information systems) for a 20-mile-long, 1-mile-wide corridor through Atigun Pass.
- Prototype to demonstrate the potential of a detailed, accurate map for the entire route.
- It could save time and money for the project developer and permitting agencies.
- It would be available to the public.
- Of course, it will cost money.

# Implementation Plans, Project Matrix

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- Preparing detailed plans that list, discuss and explain the project, the laws, and each federal permitting agency that will have a say in the project.
- Prepare and keep updated a matrix showing the status of each permit before every federal agency, providing understandable information on the data and process.

# What's Known

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- ❖ Pipeline to North America would tap into the largest natural gas market in the world
  - ❖ North America = 75 to 80 bcf/d
  - ❖ Almost three times China, India, Japan, South Korea, Taiwan
- ❖ Economic benefits huge for America, especially Alaska
  - ❖ Thousands of jobs on the table
  - ❖ State revenue source
  - ❖ Gas for in-State use;
  - ❖ Private Sector Financing
  - ❖ Help encourage exploration and extend the life of TAPS

# What's Known

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- ❖ Leverages Existing Infrastructure
  - ❖ Leverage what you have
  - ❖ Upgrade or construct what is needed
  - ❖ Transportation/Access necessary
- ❖ Multiple environmental advantages
- ❖ Broad project support
  - ❖ U.S. Chamber of Commerce, AFL-CIO, Industry and Utilities, ANGA, AGA, NGSAA, INGAA, NARUC, NGOs
- ❖ Competition to build this project

# Market Size and Natural Gas

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- ❖ Global gas trade in 2007
  - ❖ 73% of worldwide gas production was consumed within the producing country
  - ❖ 19% of gas production was delivered to foreign customers by cross-border pipeline
  - ❖ 8% of gas was delivered by LNG tanker
- ❖ The bigger the market, the more new gas it can absorb

# The Facts on Shale

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- ❖ Shale gas production was 10% of U.S. supply last year
- ❖ Growing across U.S. and Canada
- ❖ Close to markets; easy to raise and lower production
- ❖ States are hungry for revenues and jobs
- ❖ Shale gas will hold down price spikes; no more \$14 gas in the short term

# The Facts on Shale (cont.)

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- ❖ Fracking
  - ❖ Water quality concerns
  - ❖ EPA review; possible federal legislation
- ❖ More questions as it grows bigger, closer to urban areas
- ❖ One big environmental disaster could change the game
- ❖ Shale needs tens of billions of dollars of new pipeline infrastructure
- ❖ Steep production decline curve; deeper wells cost more

# LNG

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- ❖ We're not alone looking west to East Asia
  - ❖ Papua New Guinea, Australia (including coal-seam,) Indonesia, Sakhalin, Malaysia and Brunei
  - ❖ West African nations, Qatar, Oman, Yemen
- ❖ New projects totaling 9 bcf/d went online in 2009-2010
- ❖ An additional 7 bcf/d scheduled by 2015
- ❖ Once online they don't cut back; need to recover costs
- ❖ Mitsubishi forecasts potential Asia Pacific LNG supply could exceed demand by almost 20% in 2015
- ❖ Uncertain after that, but no shortage of Pacific options at tide water;

# Other Supply Options for Asia

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- ❖ We're not the only country with shale gas
- ❖ Shell signed a 30-year deal to help China unlock tight gas
- ❖ China and India are looking for more domestic gas
- ❖ China has pipeline gas options: Russia, Turkmenistan
- ❖ India looking for pipeline gas, too
- ❖ Tokyo Gas recently signed a 20-year deal with BG Group for Australian gas to supply 11% of its needs

# Project Risks

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- ❖ Long Term Global and Domestic Natural Gas Markets(not today-10-20-30 years out)
- ❖ Fiscal Structure – Federal and State
  - ❖ Loan Guarantees
  - ❖ National Energy Policies
- ❖ Regulatory Policies/Uncertainties

# Project Risks

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- Construction cost overrun risks and delays.
- Project cost: Up to \$42 billion upfront investment; \$100+ billion in long-term, binding ship-or-pay commitments.
- National energy policy; cleaner fuels; renewables; Alaska Native and Canadian First Nations issues.
- Arctic/Alaska environmental considerations.

# Activity

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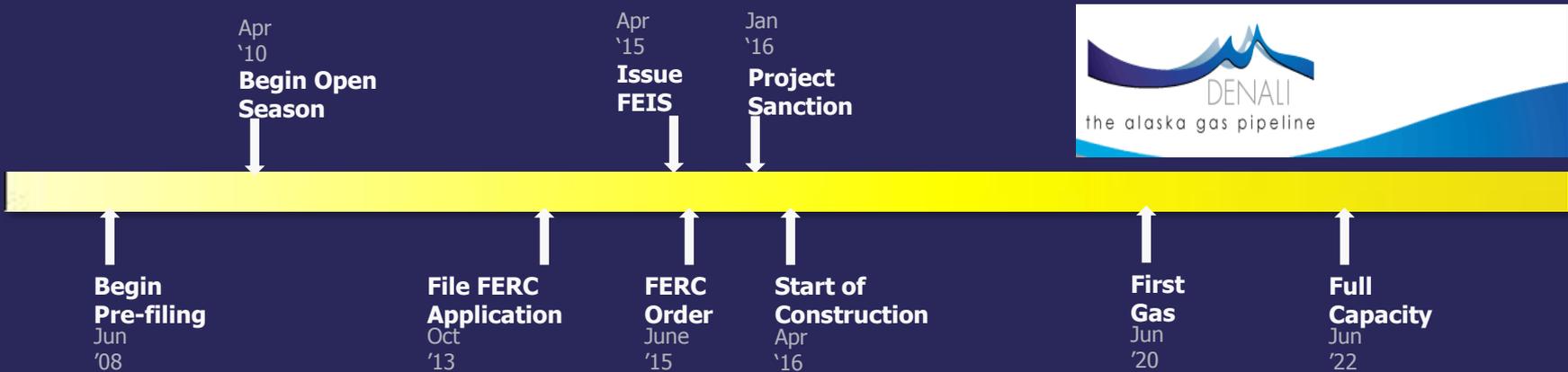
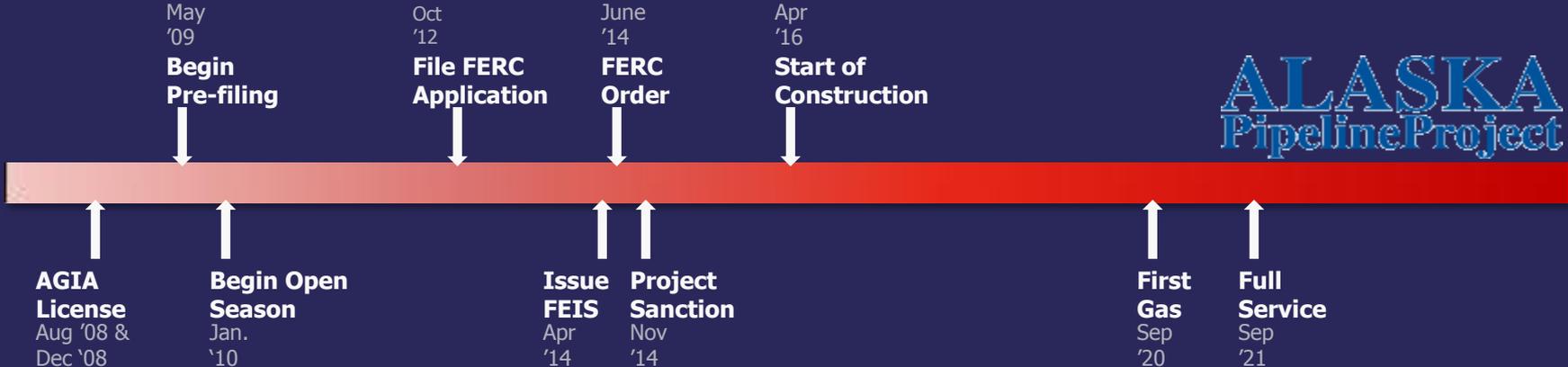
- ❖ Congressional
  - ❖ Federal Coordinator confirmation-Larry Persily
  - ❖ Do No Harm: energy, climate and other legislation
- ❖ Administrative Activity and Public Comment
  - ❖ Proposed Critical Habitat
  - ❖ Non-Attainment Areas
  - ❖ CEQ Draft Guidance Documents
- ❖ Open Season

# What is an 'open season'

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- Project developers ask potential shippers if they are interested in using the pipeline; how much space do they want; and are they willing to meet the price.
- The Alaska Pipeline Project began their open season on April 30.
- Denali—The Alaska Gas Pipeline anticipates beginning their open season on July 6.
- Negotiations are private after open seasons close.
- Developer will not build the pipe without contracts.

# Alaska Pipeline Timelines



April 2010

# Administration agenda

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- Lower carbon emissions to reduce global warming
- Abundant, secure domestic energy supplies.
- Job creation; construction and manufacturing.
- The White House wants to be more involved in encouraging the Alaska natural gas pipeline.

# North to the Future

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- ❖ Energy, environment, economic, human security-more tightly connected
- ❖ Perfect Storm for Alaska?
- ❖ Partners?
- ❖ Investment Climate Change-(transportation/energy)
- ❖ Hope not a method-acta non verba(deeds not words)

# Thanks!

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- ❖ Appreciate your time and interest
- ❖ How can we help you?
- ❖ May 20<sup>th</sup> –Deadliest Day



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