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# Addressing Challenges in Central and West Asia

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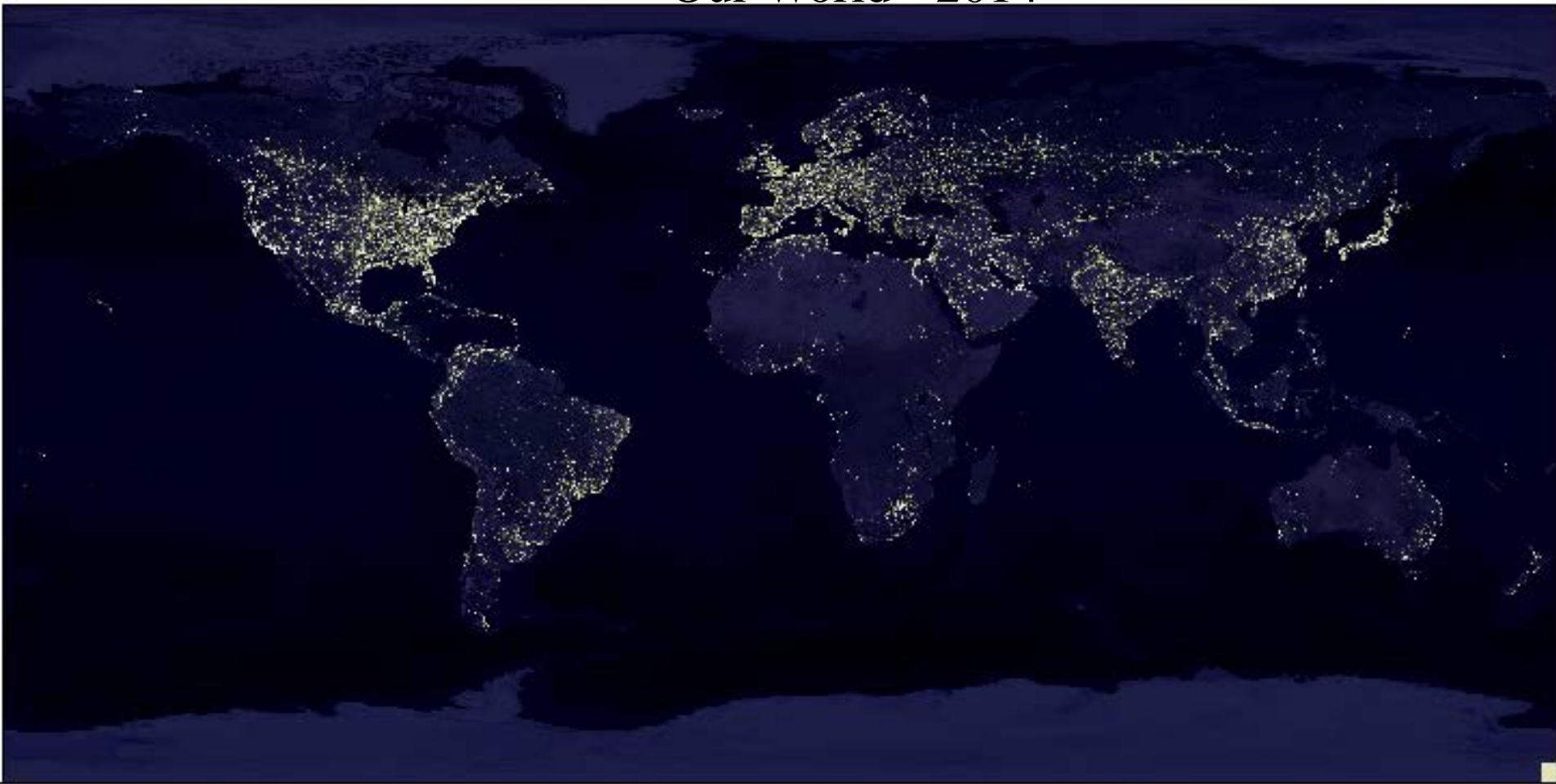


# What is Central and West Asia

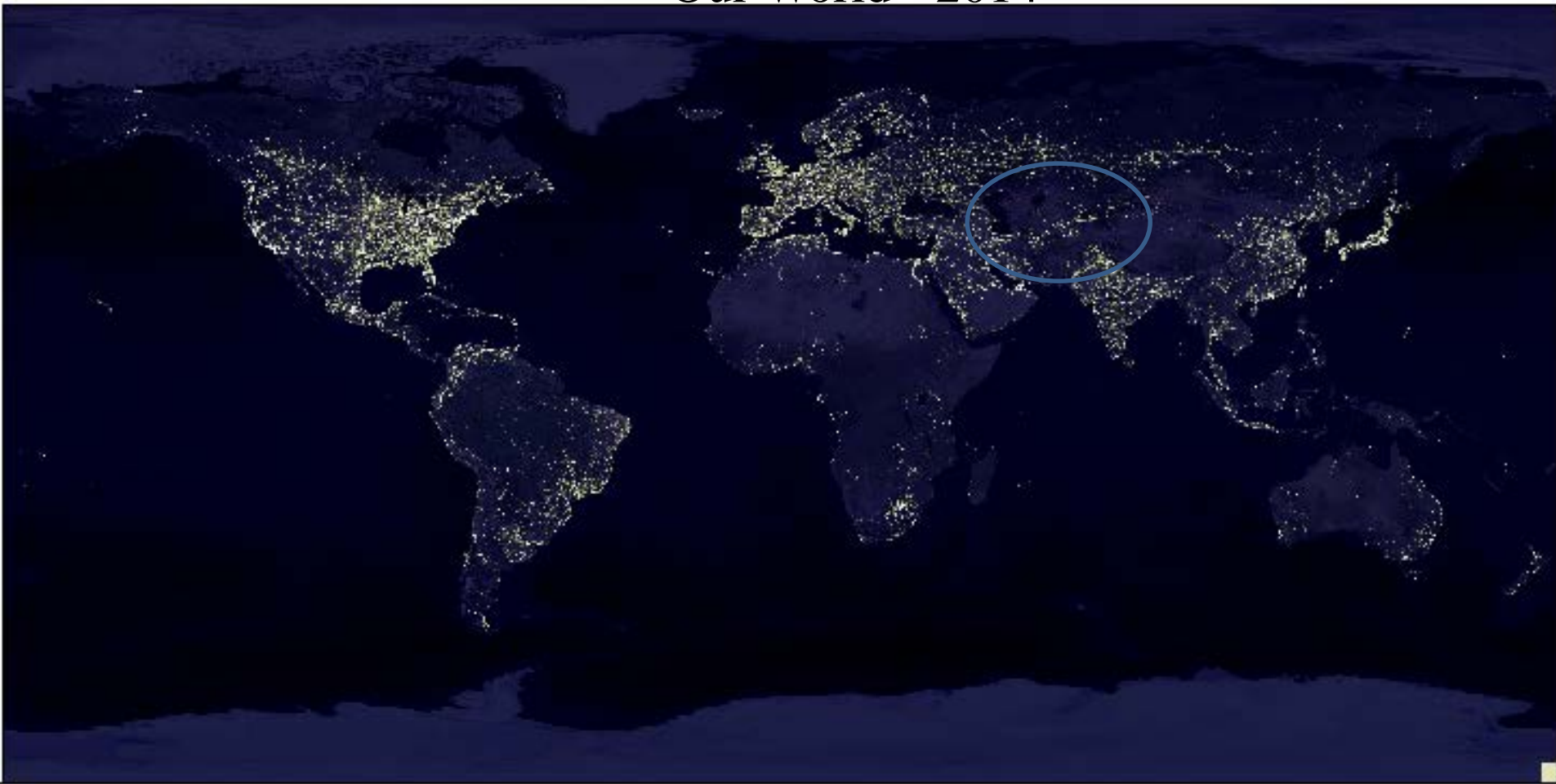
- Afghanistan
- Caucasus (Armenia, Azerbaijan, Georgia)
- Central Asia (Kazakhstan, Kirgizstan, Uzbekistan, Tajikistan, Turkmenistan)
- Pakistan



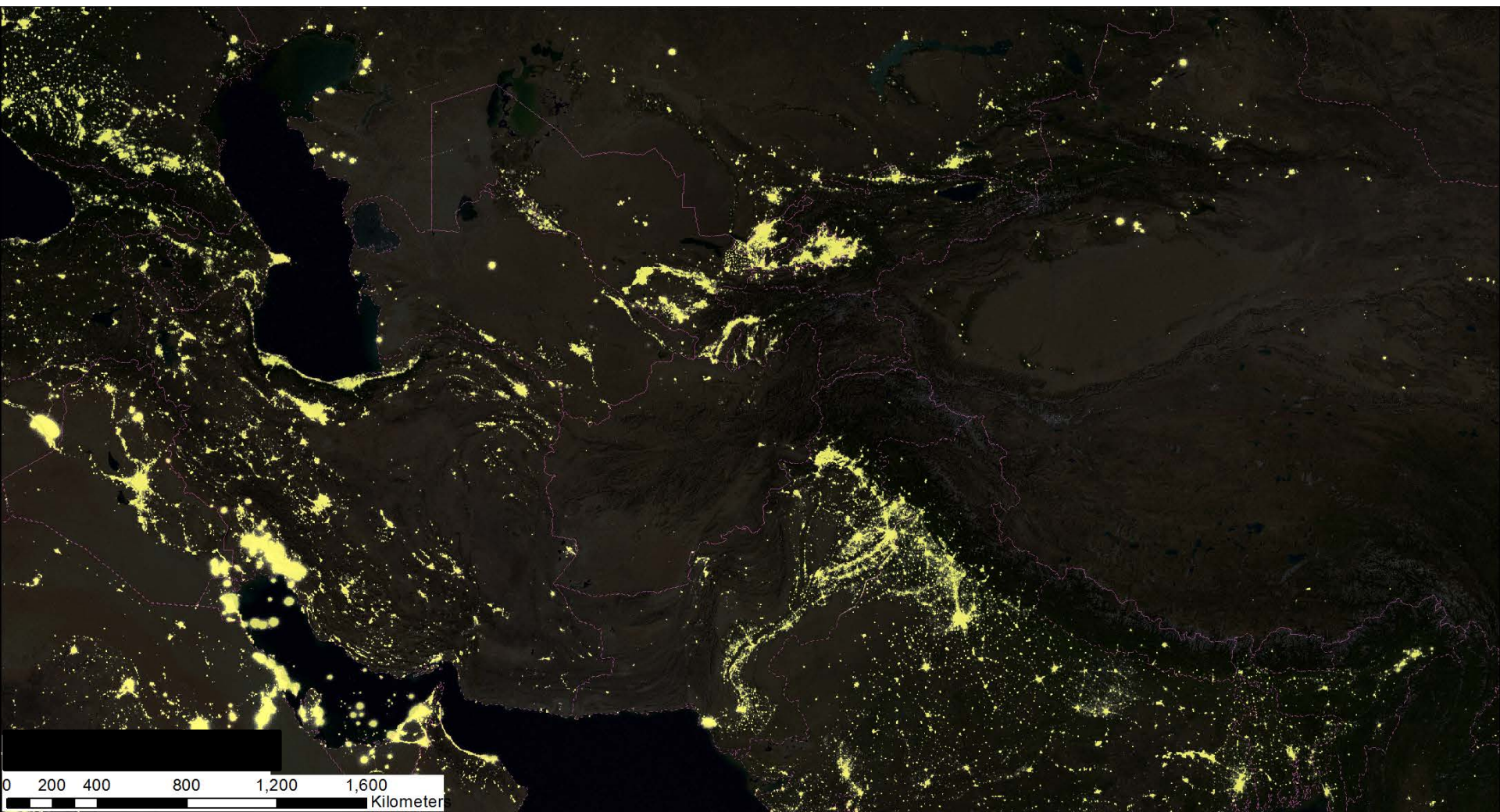
# Our World - 2014



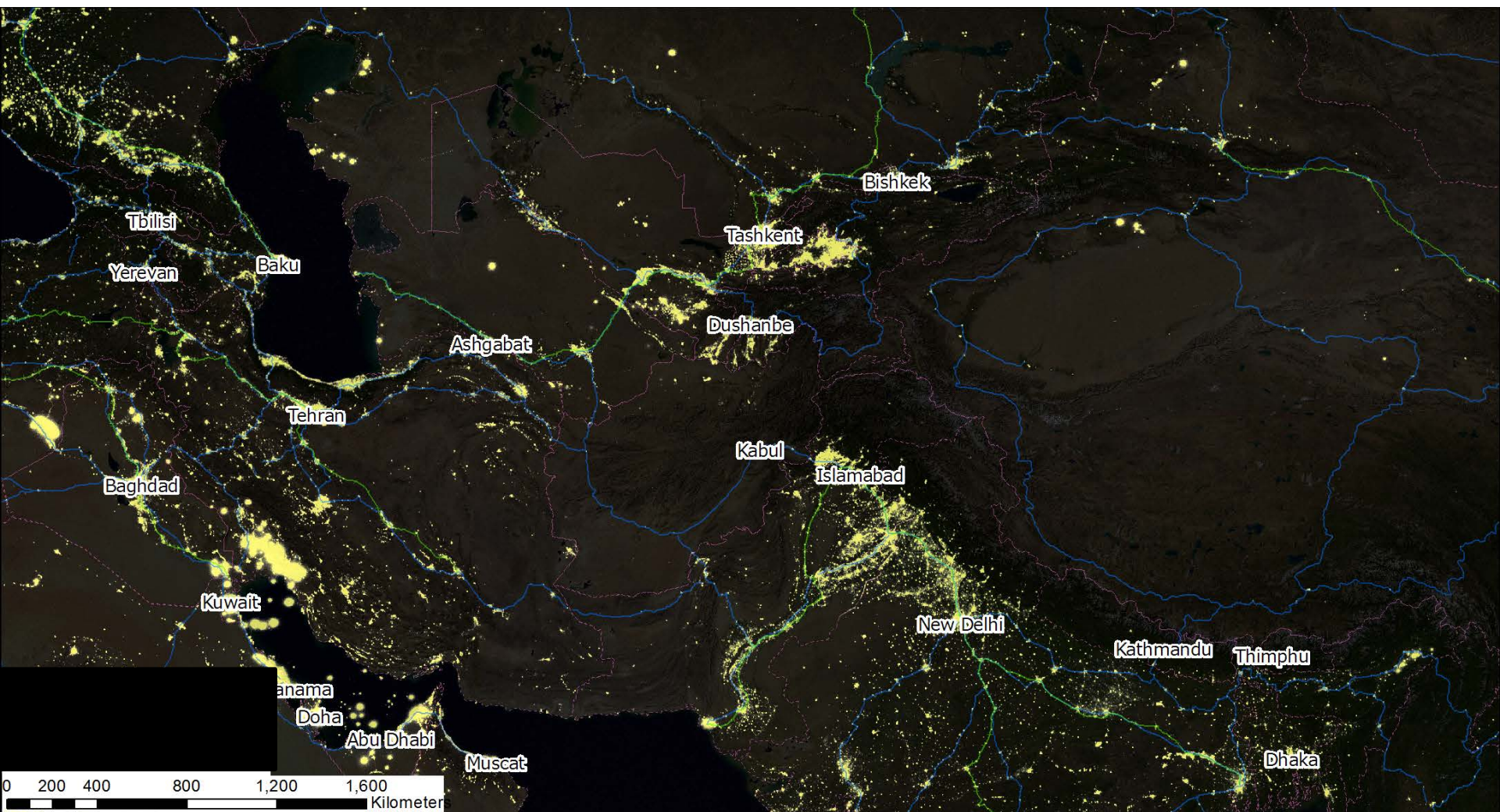
# Our World - 2014



# Central Asia: 1992



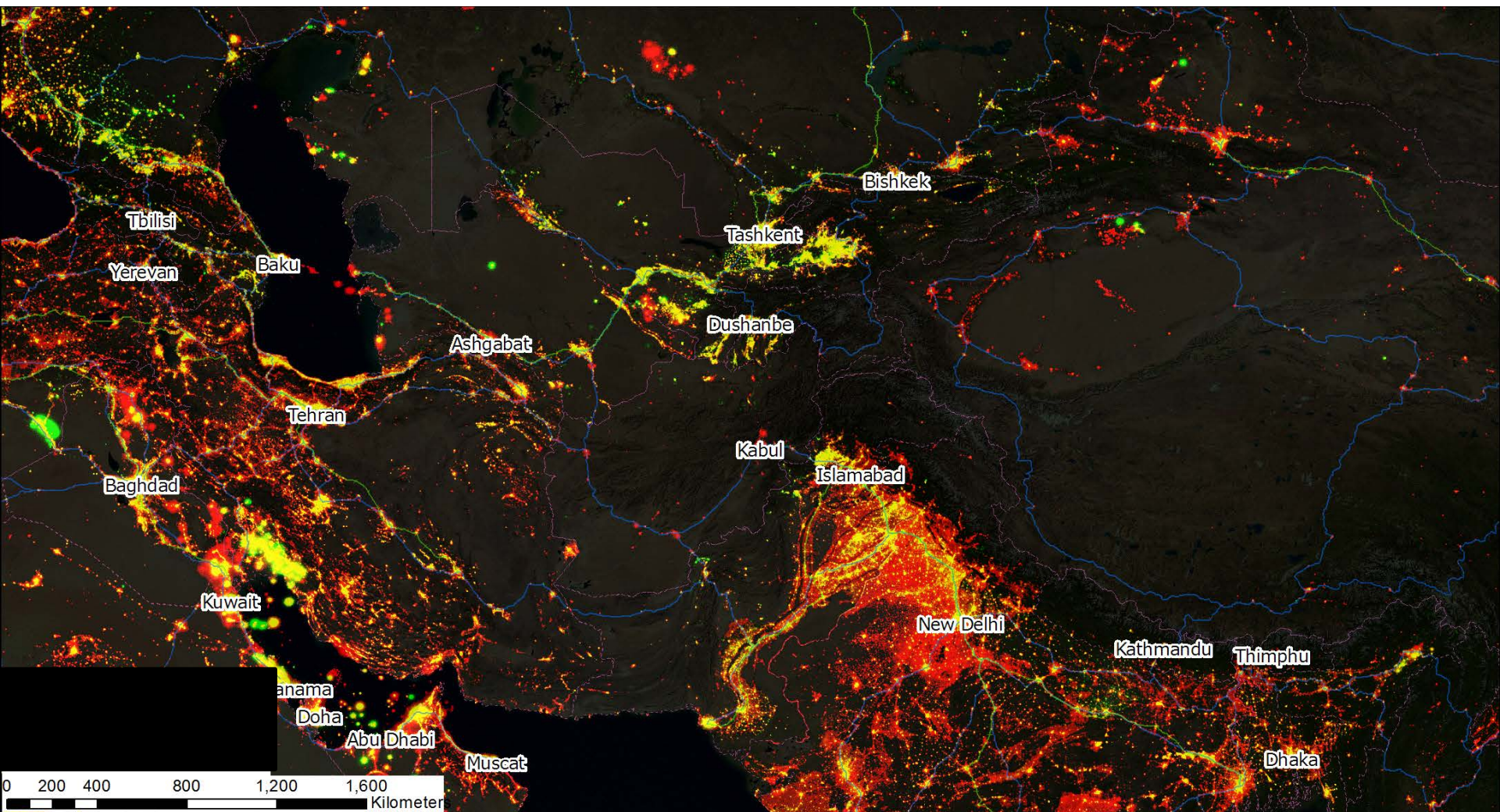
# Central Asia: 1992



# Central Asia: 2013



# Central Asia: 1992-2013



Yellow indicates strong light in both of 1992 and 2013. Red indicates growth from 1992 to 2013.

# What are the Challenges in Central and West Asia Region

- Energy Access (ranging from 100% in caucuses and Central Asia to 30% in Afghanistan)
- Ageing Infrastructure (Caucuses and Central Asia)
- Development needs (growing economies, energy demand growth, existing demand-supply gap, aged equipment inefficient and replacements)
- Smartness and compatibility (meters with distribution networks, availability of communication networks at all places; renewable with grid; automation with network condition and operating staff capacity)



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- Afghanistan – regional connectivity, increasing access through extension of transmission and distribution network, off-grid electrification.
- Caucuses and CA – Replacement of ageing assets (generation, T & D), connecting grids, gas pipelines, solar and hydropower development, smart meters.
- Pakistan – T&D expansion/up-gradation, new generation, energy efficiency, smart meters, large hydropower plants, Increasing access to electricity through off-grid electrification (micro-hydel, solar) and major reform program.



# Its not easy – It is beyond engineering



# But its still running



# Thank you

