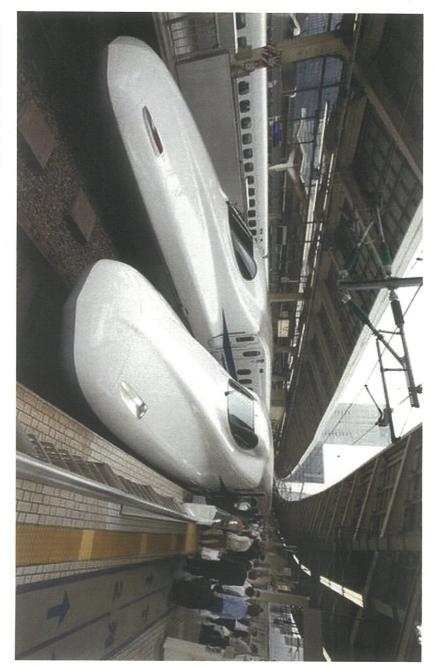
THE

LEFT, RIGHT, CENTRE

Does India need a bullet train?



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feel-good perception among the wealthy This is a wasteful project which only serves to deliver an illusory



D. Raghunandan

justification on the grounds of economic viability or public service. Even the The Mumbai-Ahmedabad bullet train is a vanity project which has little or no

the huge costs involved. others have abandoned it after studying it. The main problem is viability, given demographics have high-speed rail (HSR), while many have failed in their efforts, vanity angle — looking to position India among the ranks of developed countries is a huge overreach. Only a handful of high-income countries with specific

Failed and struggling projects

consider. Even the U.S. is tentatively initiating a San Francisco-Los Angeles is still out on its viability. Istanbul HSR line is the only example from a middle-income country, and the jury Philadelphia-Boston-New York-Washington DC corridor. Turkey's Ankara corridor, and is still unsure about the densely populated industrial-commercial system to medium-speed infrastructure, an option India should seriously HSR ambitions on cost grounds, deciding instead to upgrade its entire railway the projected ridership and required government bailout. Argentina gave up on virtually became bankrupt after losses of over \$1 billion. It realised only 50% of substantial subsidies. Taiwan's \$14 billion HSR service between Taipei and Tainan viability. France's fabled Paris-Lyon HSR service has had to periodically receive Seoul-Busan HSR caters to almost 70% of the population, yet struggles with population, and carries more than 150 million passengers annually. South Korea's the biggest industrial and commercial centres, caters to almost 50% of Japan's Japan's pioneering Shinkansen, which connects Tokyo to Osaka, passes through

has run up an internal debt of over \$300 billion. Is India ready for such an revised downwards many times to match passenger pockets, and that the railways hard to come by about its 20,000 km of HSR, it is known that fares have been eventuality? China is, of course, an exception, as it is in most things. While reliable data are

For the rich

healthcare are taboo, but subsidies for the rich seem unproblematic. ₹2,500. Subsidies appear inevitable. Subsidies for agriculture, education and break even. The tariff is too high — air fares between the two cities are around lakh passengers at fares of ₹4,000-₹5,000 would be required daily for the project to report by the Indian Institute of Management, Ahmedabad show that at least 1 The Mumbai-Ahmedabad HSR costs around ₹1 lakh crore. Estimates in the project

lower class for thousands of kilometres? Project supporters argue that one should passengers when over 90% of rail passengers in India travel by sleeper class or Should India spend over ₹1 lakh crore for a 508-km HSR used by well-heeled

upgrading services for 90% of the travelling public? 'smart cities'. When will the Railways see investment for new tracks and expensive projects for the upper classes so far, such as the misleadingly named not view these as either-or propositions. Unfortunately, one is only seeing

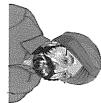
years allowing for exchange rates and comparative inflation. pointed out that the repayment amount will amount to ₹1.5 lakh crore over 20 interest with a 15-year moratorium is "almost free." Many business analysts have 2014 election manifesto? Another myth is that the Japanese funding at 0.1% a "golden quadrilateral" of even less viable HSR tracks, as promised in the BJP's India spending 15 times the present project cost for the pipe dream of 6,000 km of technology absorption by India through future HSR projects. Can anyone imagine A myth being propagated is that this project will have knock-on effects on

good perception among the wealthy. The bullet train is a wasteful project which only serves to deliver an illusory feel-

D. Raghunandan is Director, Centre for Technology and Development

RIGHT

the economy, and create jobs High-speed rail will increase investment in infrastructure, ignite



S.S. Khurana

Parliament also speaks of HSR. In 2012, the High Speed Rail Corporation was set 2020' document presented by former Railway Minister Mamata Banerjee as was evident in the Railway Budget speeches of 2009, 2010 and 2012. The 'Vision Progressive Alliance-led government had also committed itself to the bullet train, government. Before the National Democratic Alliance government, the United the high-speed rail (HSR) project squarely goes to Prime Minister Modi and his billion, it was like seeing a distant dream take shape. The credit for crystallising laid the foundation stone for India's first-ever bullet train project, which costs \$19 When Prime Minister Narendra Modi and Japanese Prime Minister Shinzo Abe

the Mumbai-Ahmedabad high-speed corridor. it was decided that the two countries would co-finance a joint feasibility study for up. In May 2013, during former Prime Minister Manmohan Singh's visit to Japan,

the exclusive high-speed rail fraternity. does not have a single high-speed corridor. There are 15 countries worldwide in in terms of kilometres of track and the number of passengers who travel, India It is unfortunate that despite being the third largest railway network in the world,

the rail network highest priority to safety when it comes to investment, operation, maintenance of in the Railways, from a gangman to the Railway Minister, has to change to give of the Railways should be strengthened to avert accidents. The attitude of all those which resulted in loss of lives. There is no denying that the present infrastructure not. The basic argument stems from the spate of recent passenger train accidents There has been an ongoing debate on whether India should go for bullet trains or

Safety first

span of two years by prioritising this investment 2014 and it should be possible to renovate or upgrade all safety infrastructures in government had announced a plan to spend ₹8.5 lakh crore in infrastructure in maintenance and safety has to give way to safety consciousness in operations. Express and the Elphinstone Road station stampede are to be averted. The 'Safety first' should be the mantra of the Indian Railways if accidents like Utkal The present system of running trains on a congested network at the cost of μ

Odious comparison

it to 30,000 km by 2020. developed a network of 22,000 km of HSR over the past 15 years. It plans to expand dimensions are necessary and we should take a cue from China which has investments are not comparable as these are not alternative choices at all. renovation and upgradation of conventional railways is odious. These Comparing the investment in the bullet train project with investment in

metropolitan cities as traffic will be diverted from road to rail. It is safer, faster, expensive and less energy-efficient, bullet trains will make the stations en route politically motivated rhetoric to score brownie points with the electorate. HSR is hubs for economic and industrial growth. HSR also means de-congestion of growth multiplier as it leads to greater mobility. Unlike air travel, which is Comments such as "bullet trains like demonetisation will kill everything"

infrastructure, ignite the economy, and create jobs and economically viable with a 11.8% rate of return. It will increase investment in

manner that we did in the space and satellites programme. display to the world our technological prowess in the field of bullet trains in the conventional Indian Railways. Let's all get together and flex our muscles and different and distinct business independent of conventional railways like the Metro Rail. Finances and management of HSR will have nothing to do with the Let us realise the fact that HSR is a new dimension to transportation and it is

S.S. Khurana is former Railway Board Chairman

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upgraded by in-house expertise The project should be financially viable to run and could 0



Vivek Sahai

domestication of the horse, and harnessing of steam power for locomotion are all Industrial Revolution witnessed in the Western world in the 18th and 19th intricate links of the same chain. Railways emerged as the mainstay of the intimately with growth in speed or mobility. The invention of the wheel Mankind's fascination with speed is legendary. The growth of civilisation is linked

A status symbol

owning the world's largest HSR network introducing high-speed trains on its network in the nineties, and can now boast of status symbol for nations. China leveraged this phenomena to the hilt by fast-moving automobiles and airplanes. Owning a HSR network has become a The high-speed rail (HSR) owes its genesis to the competition railways faced from

It is but natural for India to aspire to join the exclusive club of nations having a HSR network. After all, it has the dream of becoming the third largest economy in

taken creditable strides in the field of space exploration. 25 years. It already has a nuclear arsenal, a formidable missile programme, and has

So, why should it not have a modern HSR network as well?

Two birds, one stone

wearing the tag of having a HSR network. upgrade their rail systems to reach a speed of 250 kmph and beyond to qualify for intensive project. And above all, India just doesn't have the technology for running trains at high speeds. Japan, France and China all took a decade or more to But, as they say, the devil always lies in the details. The HSR is a highly capital-

the Achilles' heel of all mega-projects in our country. how realistic the projection of cost and time for construction are, because that is moratorium of 15 years is the best that India has ever got. However, let us examine loan of about \$14 billion at 0.1% interest with a payout time of 50 years and a two birds with one stone. It will have the technology and the finances at one go. A loan through the Japan International Cooperation Agency, India has tried to kill By adopting the Shinkansen technology owned by Japan and wrangling a sizeable

A capital-intensive project

acquisition could be a time overrun in the project due to a long-drawn process for land shows that the project cost will go up by about ₹40,000 crore. Another dampener The project is now slated to cost ₹110,000 crore. A very conservative estimate cost of a viaduct capable of permitting 320-km speed is bound to be much higher more than ₹250 crore per km, and that too for 100 kmph speed only. The per km design adopted for construction of metro lines anywhere in India has always cost decided to have the entire alignment on a viaduct design of construction. Such alignment on embankment pegging per km cost at ₹140 crore. It has now been In 2014-15, the cost of this project was envisaged at around ₹98,000 crore with 62%

at those anticipated ticket rates, so many passengers will embrace the HSR ridership of 50 million passengers a year. It would be instructive to assess whether Airfares might become very competitive in that scenario. experience world over is that no HSR line has become profitable until it garners a management to inflate the cost of the ticket when the operations commence. The come under a big question mark. An inflation in cost will compel the If the project is actually going to cost around ₹150,000 crore, then its viability will

should be ultimately financially viable to run and could be upgraded by in-house commerce can't be contested. But what is germane to the whole subject is that it That the people of India need a high-speed rail network to give wings to trade and

Vivek Sahai is former Railway Board Chairman



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