

Objectives of Regulation and the Infrastructure Restructuring “Model”: Lessons from the Rail Sector

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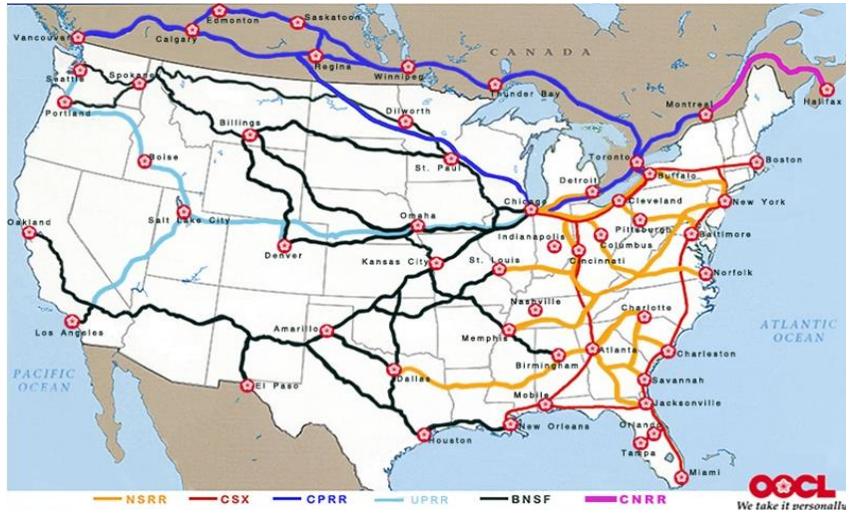
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2 objectives, 2 models of freight rail restructuring

- Objectives (Of course there are others)
 - Protect shippers from monopoly power, abuses
 - Attract private capital into sector, especially infrastructure
- Models
 - Europe: Vertical separation or 3rd party access
 - Americas: Horizontal separation, vertical integration

Horizontal separation, vertical integration: US



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Horizontal separation, vertical integration: Mexico

Railway System



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Objective 1: Protect shippers from monopoly

- For many shippers, intermodal competition does the job: motor, water carriers
- For rail-captive shippers (bulk, long distance, no water access), more complicated
- Vertical separation model: Addresses the problem directly. Shippers can run their own trains or contract with 3rd party Train Operating Companies (TOCs).
- Horizontal separation: Not so easy.
- This model inevitably creates some regional rail monopolies, so some shippers may be “captive” to one railway.

Protecting “captive” shippers under horizontal separation (I)

- Similar strategies in practice or under discussion in US, Mexico, Canada
- Alternative 1: Rate ceilings
- In US, captive shippers may challenge rates under 3 criteria:
 - Excess railway company profits (the “revenue adequacy test”)
 - Inefficient railway company management
 - Cross-subsidization of other shippers (the “stand-alone-cost test”)
- In practice, only cross-subsidization criteria has been basis for successful challenge, though excess profits criteria may soon do so

Protecting “captive” shippers under horizontal separation (II)

- Alternative 1: Rate ceilings, continued
- In Mexico, 2015 amendments to 1995 Railways Law
- Dissatisfaction with state of freight rail competition
- Serious consideration to imposing open access (European reform model)
- Instead, 2 choices of new freight rail regulator (ARTF)
- Article 47: If competition agency (COFECE) finds absence of competition, ARTF may impose rate ceilings
 - Methodology for rate ceilings under debate

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Protecting “captive” shippers under horizontal separation (III)

- Alternative 2: Mandatory competitive “access”
- In US, mandatory “switching” to nearest competing long-haul railway
 - The “Canadian solution”
 - Called for in Staggers Act, but never imposed by ICC or STB
 - Under consideration by STB in current proceeding
 - STB proposes regulations for granting switching request “that is either practicable and in the public interest or necessary to provide competitive rail service”

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Protecting “captive” shippers under horizontal separation (IV)

- Alternative 2: Mandatory competitive “access”, continued
- In Mexico, Article 36: If COFECE finds absence of competition, ARTF may order “trackage rights” to competing long-haul railway
 - Contemplated in 1995 Railways Law, but rarely imposed
 - Order must specify railway, length, products, and origin and destination points
 - Methodology for calculating access fee under debate
 - Criteria for ARTF choice between using Article 36 and Article 47 also under debate

Problems with the 2 alternatives (I)

- Rate Ceilings
 - Differential pricing – “Ramsey pricing” – is efficient for industries with high fixed costs, encouraged by US regulator
 - But is there a limit? If so, what? What is “fair”? Less an economic than a political issue (*pace* contestability theory)
 - Stand-alone-cost test vs. 3 main alternatives:
 - Competitive rate benchmarking (TRB report, Wilson and Wolak)
 - Commodity-specific rate or mark-up ceilings (Pittman)
 - Geography-specific rate-of-return regulation (STB Staff Report)

Problems with the 2 alternative (II)

- Mandatory access (either switching or trackage rights)
 - At what rate?
 - Will the other railway company want to compete?
 - Duopolists often do not
 - Shippers: They're not competing now; why would that change?
- Thus alternative 3: Demonopolization?

Objective 2: Attract private capital

- Attracting private capital into rail operations seems to be straightforward
 - Entry of new TOCs with privately purchased locomotives, rolling stock in liberalized European railways
 - Even reform laggards like Russia have successfully liberalized rolling stock (but not locomotives)
- Problem is attracting private capital into rail infrastructure
 - Many world railways have antiquated infrastructure, severe bottlenecks
 - How to attract private capital into government-owned, government-controlled infrastructure?

This is a strength of the “horizontal separation” model

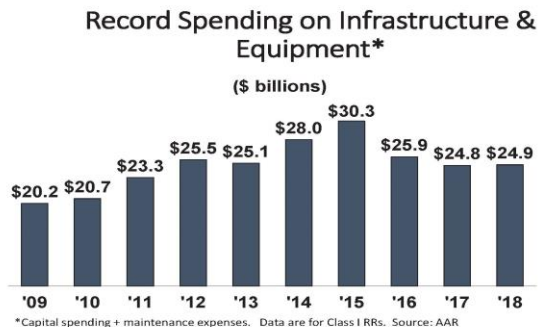
- In the US and Canada, the railway companies own their own infrastructure
 - Historically the case in the UK and Russian Empire as well
- In Mexico and Brazil, the railway companies control the infrastructure under 30- or 50-year franchise agreements
- In Mexico and Brazil, these private consortia bid USD100K per track-km for the franchise rights, then investment millions into the infrastructure over the years
- Old state-owned monopoly freight railways moved quickly from subsidized ward of the state to successful, tax-paying enterprises

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While in the US, ...



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2 objectives, 2 models

- Vertical separation (European) model in principal leaves no freight shippers captive
 - However, it continues historic reliance on government for infrastructure funds
 - Chris Nash: “Railway finances’ is to a large degree about subsidies.”
 - Other main disadvantage: Loss of vertical economics
- Horizontal separation model creates regional monopolies
 - Thus calls for regulatory regimes to protect “captive shippers”
 - However, quite successful in attracting private investment into infrastructure

Of course this is a broader debate

- Extensive literature comparing the two rail “models”
- Different advantages in different contexts
 - Small country vs. large
 - Freight-dominant vs. passenger-dominant system
 - Density of operations (though measurement issues)
 - Complete vertical separation vs. 3rd-party access
 - Cost penalty for vertical separation: How large?
- My purpose is to add one less-discussed advantage of horizontal separation: attraction of private investment into infrastructure