French high-speed rail sabotaged before Olympic ceremony

Lipika Pelham and Paul Kirby

"Paris Olympics had representatives from over 200 countries, millions of spectators, and a budget of over \$9 billion"

"at least 250,000 passengers were expected to be impacted due to train cancellations and diversions"

"thousands of rail workers were distributed across the network to investigate damage and initiate repairs"

"presence of tens of thousands of security personnel in Paris"

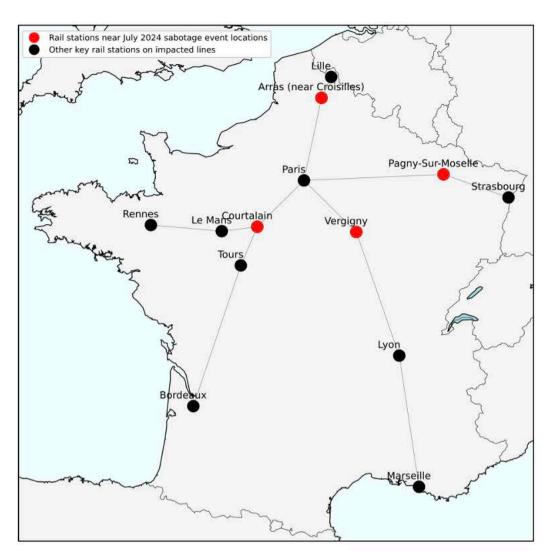
"one foiled attack where presence of rail workers scared off individuals"

French PM Gabriel Attal:

BBC News

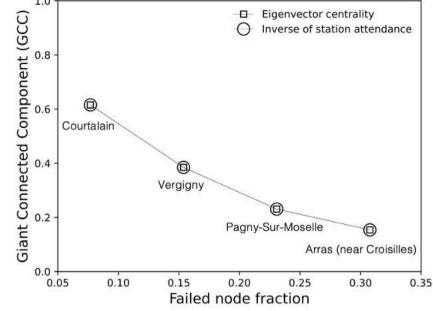
[the incidents were] "prepared and organized" [in a way that] "shows a kind of knowledge of the network in order to know where to strike"

Sources: https://www.cnn.com/2024/07/26/europe/france-rail-network-disruption-paris-olympics-intl-hnk/index.html

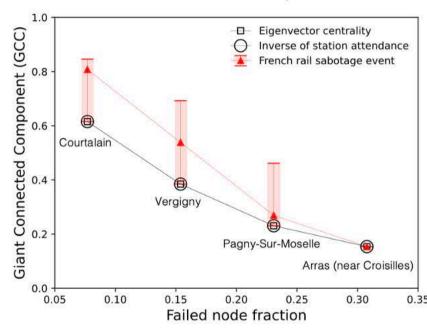


a. French high speed rail sub-network with key stations and impacted lines

Network robustness with French high speed rail sub-network



b. Network robustness (excluding Paris) with topology and flow-based failure sequences



C. Network robustness (excluding Paris) with French rail sabotage event sequence uncertainties

- Network topology and flow-based failures provide a worst-case scenario for the July 2024 event sequence
- Node level risk and deterrence analysis is necessary, but not sufficient, to fully understand and mitigate soft target threats in surface transportation networks