

Looking at International Best Practice in campaign for a bigger, better railway in Britain

Throughout its campaigning for bigger and better rail-based transport (railway, trams, underground) in Britain, Railfuture looks at how systems are operated around the world, for passenger and freight services as well as infrastructure. Here are some of its tweets on **@RailfutureInter**.



Railfuture Internat @RailfutureInter - 12m

Germany leads way in ovecoming danger at tram stops from pedestrians looking down at smartphones and not seeing tram



## Smartphone users safer in Augsburg

GERMANY: Stadtwerke Augsburg is testing ground lights at two tram stops as a means of warning distracted smartphone users when a tram is app...

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DB has founded its own freight company in Czech Republic. Will British companes create overseas freight ventures?

Deutsche Bahn AG @DB\_Presse

DB Cargo gründet eigene Landesgesellschaft in Tschechien: bit.ly/1o5zFk8

Railfuture Internat @RailfutureInter · 7m

Remote-contolled Metros are common worldwide but long time to implement on London Tube; Glasgow subway easier though



Metro Report @MetroReportInt

Spain: Driverless metro reaches Barcelona airport bit.ly /1QbDi4O

Railfuture Internat @RailfutureInter · 12m

Good example of Britain following international best practice. Less infrastructure/maint cost; less visual intrusion



Metro Report @MetroReportInt

UK: Midland Metro's trams to be converted for catenary-free operation bit.ly/105OV0n

🛂 You Retweeted

Keolis Group @groupekeolis · Apr 26

"Driverless metro operations provide above 10% operational savings" P. Leguay Urban Railway Systems Dir. #MENAUITP



How do railways around the world prevent cars overtaking at level crossings? Bendy-bollards along centre of road?



#### Ch Supt John McBride @BTPMcBride

.@NetworkRailSCOT SafetyVan @ #Stevenston, #Raigmore & #Cleghorn today We do this daily #makingcrossingssafer



Railfuture Internat @RailfutureInter · Apr 26 When most brand new metros designed with fully indepenent tracks for 24/7 operation, why will 67km automated metro for Montréal be 20/7?

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#### Railfuture Internat @RailfutureInter · Apr 26

67km automated metro for Montréal planned. It would be third-largest automated network: Dubai 80km, Vancouver 68km



#### Metro Report @MetroReportInt

Canada: Montréal automated light metro proposal unveiled. More details: bit.ly/1VUpugl



#### Railfuture Internat @RailfutureInter · Apr 15

New ICE depot in Nippes, Cologne, will be first in Germany run entirely on renewable energy (1,200 solar panels)

#### Rail News UK @RailNewsUK

DB awards systems contract for first carbon neutral ICE rail depot: Deutsche Bahn (DB) has awarded Caverion a ... bit.ly/23B9N2T



Railfuture Internat @RailfutureInter · Apr 13 Salzburg Hbf also has digital carriage positioning displays - see @Railfuture article railfuture.org.uk/article1648-Mo...

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#### Nick Brooks @nickabrooks

1st time that I've seen a digital coach/car positioning display -At DB's 'station of the future' Berlin-Suedkreuz



Air France is not alone - screens at Vienna Airport show Austrian Airlines "flight" from Vienna to Linz is a train

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|-----------------------------------|---|
| trains two-rowing                 |   |
| Arroport Ch de Gaulle             |   |
|                                   | Lonaine Lousigny 102<br>Champagne Androne 102 |
| Vol. Air France AF75              | Amport Chile Gaulle 2                         |
| e salte illes de transport anna i | AND DECK                                      |
|                                   | avant is alguest.                             |
|                                   |   |

#### Nick Brooks @nickabrooks

SNCF TGV doubling up as Air France flight, so planes don't fly short distances it should be this way everywhere



#### Railfuture Internat @RailfutureInter - Apr 13

Two new metro lines in Santiago, Chile, opening in 2016/18 will (like many new lines around world) be 'driverless' -



#### Santiago takes delivery of driverless metro train CHILE: The first of 37 driverless trainsets that CAF is supplying for lines 3 and 6 of the Santiago metro was unloaded at Valparaíso port on April 6....

KALIVITURE

Railfuture Internat @RailfutureInter · Apr 7

Deutsche Bahn offers cash prizes to web developers/designers/start-ups to develop new apps/software for station info



#### Railway Gazette @railwaygazette

Germany: DB launches digital passenger information competition bit.ly/1TDBj9z



A look at Moscow transport system by @Railfuture's Ian Brown to see what ideas Britain can adopt - new article at railfuture.org.uk/article1670-Mo...

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#### Railfuture Internat @RailfutureInter · Apr 7

Railfuture's "Go Compare" international versus British rail benchmarking will be looking at Berlin and Prague next

#### Railfuture @Railfuture

New railfuture.org.uk/Go+compare page on @Railfuture web-site looks at Britain's railway can adopt good ideas from other countries. More to come



Railfuture Internat @RailfutureInter - Apr 6 GSM-R for ERTMS digital train operation uses 1990s 2nd generation circuit-switch technology. 4G testing now complete



Siemens and Huawei successfully test CBTC over LTE SIGNALLING: Huawei announced on March 29 that it had completed interoperability testing of communication-based train control over LTE wit...



## Railfuture Internat @RailfutureInter · Apr 6

Appears that new #IZY Brussels-Paris train service is following low-price air model: low headline fares +  $\pounds$  gotchas



#### Nick Brooks @nickabrooks

Taking new #IZY train from Brussels to Paris tomorrow. And it really did cost €19 Trouble is that my case cost €20

World's longest trams at 55.9 metres long now in service in Budapest. One driver for more passengers = better value.



#### Longest tram enters service in Budapest

HUNGARY: March 31 saw the entry into passenger service of what is claimed to be the longest tram in the world. The 55.9 m long nine-section...

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Railfuture Internat @RailfutureInter - Apr 6 Very disappointing Uzbekistan tram line conversion to road with bustitution. Not international good practice at all.



Toshkent tram network to close

UZBEKISTAN: Toshkent Mayor Rakhmonbek Usmonov announced on March 29 that the city's 87.8 route-km tram network is to close by the e...

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Virtual ticket office on test in Essen, Germany. @greateranglia has has similar in Stansted Airport for some time.



# Virtual ticket office on test in Essen

GERMANY: A 'virtual walk-up ticket office' which combines a self-service ticket machine with a video link to a call centre is being tested at Essen...

#### Railfuture Internat @RailfutureInter · Apr 3

Washington DC's Union Station to be bike- and pedestrian-friendly with more space, new entrances, wider platforms.



Union Station expansion plans will help train riders, cyclists, and ... Union Station and the surrounding area is in line for a huge renovation. Amtrak just announced a design to add new space to wait for trains. Ot...



#### Railfuture Internat @RailfutureInter · Apr 3

Mobile ticketing on rail increasingly rolled out around world - in USA Los Angeles and Boston aviable system wide -



## Metrolink's mobile ticketing now available syste...

Metrolink's mobile ticketing now available systemwide. Metrolink's mobile ticketing app is now available for all Metrolink trips.

blog.masabi.com

Taiwan aims to create a nationwide integrated fare system for public transport, starting with Taipei modernisation -



#### Taipei ticketing upgrade

TAIWAN: Taipei Rapid Transit Corp has selected Thales to upgrade the metro fare collection system. Thales is to roll out its Transcity platform...

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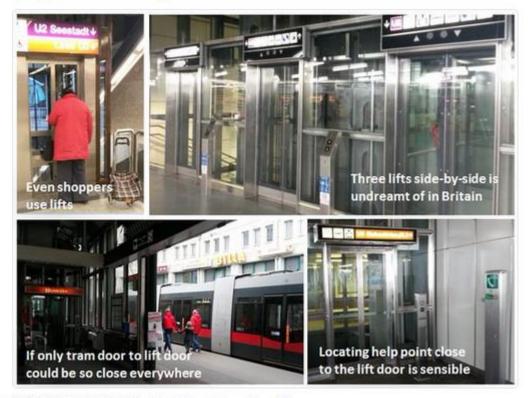
Railfuture Internat @RailfutureInter - Mar 28

Feels like back row in a cinema but actually disabled carriage of #OBB new #Cityjet trains. oebb.at/en/news/cityjet





Lifts (elevators) are becoming increasingly important on transport networks as population ages. Photos of #Vienna...



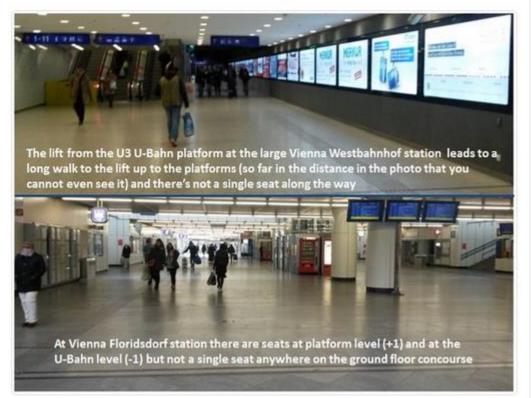


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Railfuture Internat @RailfutureInter - Mar 28 Transport systems cater well for wheelchair users. What about people who can walk but not very far without stopping?



Station seating seems designed only for people waiting patiently for train. What about those who need quick rest?



#### Railfuture Internat @RailfutureInter · Mar 27

Investment making rail/metro stations beautiful can pay for itself with higher patronage: rail becomes aspirational



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#### Nick Brooks @nickabrooks

Most beautiful metro station in world? The 'Dome of Light' at #Kaohsiung in #Taiwan voutube.com/watch?v=I0HWdZ...



Could personalised boarding SMS to passengers avoid last-minute rush? Can staggering by carriage reduce congestion?



#### Euro Railway Review @EuroRailReview

.@VirginTrains launch Earlybird Boarding text messaging service at London #Euston: bit.ly/1Ukbhtl RT



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#### Railfuture Internat @RailfutureInter · Mar 27

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Surely railways should be able to \*instantaneously\* change clocks from 01:59:59 to 03:00:00 across entire network?

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#### Deutsche Bahn AG @DB\_Presse

Nach 1.59 Uhr kommt 3.00 Uhr: #DeutscheBahn stellt 120.000 Uhren auf #Sommerzeit um deutschebahn.com /de/presse/pres...



#### Railfuture Internat @RailfutureInter · Mar 27

Advanced form of rail journey price capping based on the benefit of hindsight. Something rest of world can emulate?

#### Railfuture EAnglia @RailfutureEA

New MultiPass rail ticket aims to charge passengers cheapest fare with benefit of hindsight for trips made over time theguardian.com/business /2016/...



#### Railfuture Internat @RailfutureInter · Mar 15

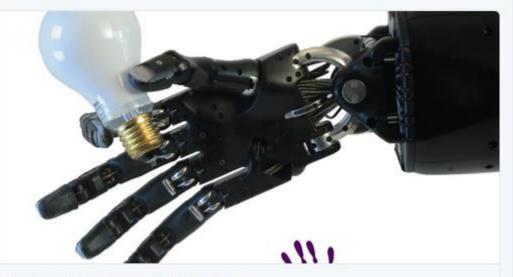
Good to see @TfL adopting some integrated transport international best practice from the cycle-friendly Netherlands



#### Transport for London @TfL

Take a look at our plans for a 'Dutch-style' Superhub at Waterloo, which will provide safe & secure cycle parking.

At Paris stations robot porters to help customers being tested. Britain now looking at robots to maintain trains.



#### Train maintenance robot funding

UK: Funding has been allocated for academic studies into the feasibility of using robots and autonomous systems to undertake 'dangerous, difficult,...

railwaygazette.com

# Railfuture Internat @RailfutureInter · Mar 14

Zurich Transport wants people to download its app so it increases rail discount % in March as more downloads occur

#### Nick Brooks @nickabrooks

Zurich Transport reducing smartphone ticket prices by up to 30% in March, depending how often its App is dowloaded - newstix.de/index.php?site...

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Railfuture Internat @RailfutureInter · Mar 14

Booking travel insurance as add-on to flight tickets is common so why not rail travel? Indian Rail is considering it

#### Ministry of Railways @RailMinIndia

Indian Railways in talks with insurance companies to provide cover to passengers.

dnaindia.com/money/report-i...

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British trains often have power sockets at the table or knee level - avoids dangling phone wires on German trains



#### Nick Brooks @nickabrooks

#Bombardier Talent 2s on reg trains have power sockets above middle of window; leads to lots of hanging smartphones



#### Railfuture Internat @RailfutureInter · Mar 9

# German railways remotely monitor switches to detect faults. 2,000 points already - will be 30,000 nationwide by 2020



#### Deutsche Bahn AG @DB\_Presse

#Kefer: "Start für Weichendiagnose: 2.000 Weichen bereits fernüberwacht, bis 2020 bundesweit 30.000." #ZukunftBahn

#### Railfuture Internat @RailfutureInter · Mar 9 Budapest receives approval to introduc

Budapest receives approval to introduce 56-metre-long trams thought to be world's longest. Edinburgh's are 43 metres

#### Rail News UK @RailNewsUK

Approval for world's longest tram: BKK has received approval to operate the first of its new 56-metre Urbos 3 ... bit.ly/1Yx7sQj

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# Railfuture Internat @RailfutureInter · Mar 8

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New Helsinki metro 14 km Ruoholahti to Matinkylä extension with 8 stations for €1bn v. London Northern line short 2-station extension @ £1bn

In France SNCF is piloting robot luggage trolleys to follow staff who are assisting mobility-impaired passengers -



#### Robots on test at Paris stations

FRANCE: A robot luggage trolley and two types of cleaning machine are being tested in Paris by SNCF's station management business Gares &...

#### Railfuture Internat @RailfutureInter - Mar 8

USA has 200,000 level crossings. Like Britain (c. 7,000) it is focusing investment on removing and upgrading them.



#### FRA awards level crossing upgrading grants

USA: The Federal Railroad Administration has awarded nearly \$10m in grants for nine projects to increase the safety of level crossings on route...

# LAN TOTAL

China opened new tramway 5 March. Partial 750V dc overhead but on rest of route trams powered by hydrogen fuel cells



#### Qingdao opens fuel cell tram route CHINA: Described as the country's first domestically-designed tram route, an 8.8 km line with 12 stops in the coastal city of Qingdao was...

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Railfuture Internat @RailfutureInter - Mar 7

Much of europe rolling out ETCS Level 2. In Sweden, Russia and Kazakhstan Level 3 is live but not mature enough.



#### Elusive ETCS Level 3 still a long way off

IRJ at UIC ERTMS world conference Brussels. The path towards an interoperable version of ETCS Level 3 suitable for use in Europe still a... Better headlights mean British trains no longer need yellow at front - catching up with continental practice



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**Railfuture Internat** @RailfutureInter - Mar 4 Irish railway to control entire 2400km network from one control centre by 2022. Any resilience to cope with failure?



#### Irish Rail issues tender for national train control centre

IRISH Rail (IE) has issued a tender for the supply of a new National Train Control Centre (NTCC), which will replace the existing Centralised Traffi...



# Railfuture Internat @RailfutureInter - Mar 4 ETCS Lev 2 trial in Belgium planned for 2016. @NetworkRail trial planned for East Anglia before East Cost Mainline.



Belgian ETCS Level 2 pilot line to be ready this year BELGIUM: The first of three pilot projects to prepare for the implementation of ETCS Level 2 across the national network is due to be ready later...

#### Railfuture Internat @RailfutureInter · Mar 4

Singapore plans pilot of contactless tickets hoping to make it permanent payment system. Isn't London enough proof?



#### Metro Report @MetroReportInt

Singapore: LTA to test contactless ticketing bit.ly /1p1yPpK



Railfuture Internat @RailfutureInter - Mar 4 Railway in Sydney Australia moving towards Rail Operating Centres (ROCs) like @NetworkRail, which is more advanced.



Sydney Trains to build integrated control centre AUSTRALIA: Sydney Trains is to develop an integrated Rail Operations Centre at a cost of A\$276m, New South Wales Minister for Transport &...

# Copenhagen has entirely 'driverless' metro system. UITP plans 3-day training course there in May to share knowldge. metroautomation.org/uitp-to-hold-t ...



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#### Railfuture Internat @RailfutureInter · Mar 4

Budget long-distance rail travel from lzy. €10 to stand for 2 hours if no free seats. What will public reaction be?



Izy budget Paris – Brussels train service to offer €10 standing tick... EUROPE: Plans to launch a low-cost train service between Paris Nord and Brussels Midi were revealed by high speed operator Thalys on March...



## Railfuture Internat @RailfutureInter · Feb 15

Trains cancelled because too few train drivers with route \*speed/braking\* knowledge. Will GPS one day provide it?

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#### Richard Westcott @BBCwestcott

BBC News - Why do crew shortages cause one in 10 train delays? bbc.co.uk/news/magazine-...



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#### Railfuture Internat @RailfutureInter · Feb 15

Britain has least worst rail fatality record, but why? What do we do differently? Are our H&S rules much stricter?



Richard Westcott @BBCwestcott

Worth noting

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Railfuture Internat @RailfutureInter · 21m

# As battery technology improves battery hybrids will increase but at ports is battery-only with mains charge better?

#### Railway Gazette @railwaygazette

Germany: Alstom is to supply Metrans Rail with two Prima H3 diesel-battery hybrid shunting locos for use at the Port of Hamburg.

Railfuture Internat @RailfutureInter · 27m

Could articulated wagons come to Britain? Fewer axles affects route availability/track wear reduced by less movement



Railway Gazette @railwaygazette Russia: Articulated open wagon unveiled bit.ly/1o77QZu

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DB has founded its own freight company in Czech Republic. Will British companes create overseas freight ventures?

Deutsche Bahn AG @DB\_Presse

DB Cargo gründet eigene Landesgesellschaft in Tschechien: bit.ly/1o5zFk8

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#### Railfuture Internat @RailfutureInter · Feb 12

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Remote-contolled Metros are common worldwide but long time to implement on London Tube; Glasgow subway easier though



#### Metro Report @MetroReportInt

Spain: Driverless metro reaches Barcelona airport bit.ly /1QbDi4O



#### Railfuture Internat @RailfutureInter · Feb 12

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Good example of Britain following international best practice. Less infrastructure/maint cost; less visual intrusion



#### Metro Report @MetroReportInt

UK: Midland Metro's trams to be converted for catenary-free operation bit.ly/105OV0n



#### Railfuture Internat @RailfutureInter · Feb 12 As battery technology improves battery hybrids will increase but at ports is battery-only with mains charge better?

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#### Railway Gazette @railwaygazette

Germany: Alstom is to supply Metrans Rail with two Prima H3 diesel-battery hybrid shunting locos for use at the Port of Hamburg.



#### Railfuture Internat @RailfutureInter · Feb 12

Could articulated wagons come to Britain? Fewer axles affects route availability/track wear reduced by less movement



#### Railway Gazette @railwaygazette

Russia: Articulated open wagon unveiled bit.ly/1o77QZu



Use of Social Media is one area where Britain's railway has been a pioneer and other countries could learn from us

#### Railway Gazette @railwaygazette

TfL Social Media – Adapting to Twitter's Changes – TfL Digital blog bit.ly /1TfYCGO



#### Railfuture Internat @RailfutureInter · Feb 9

Britain has a very safe railway - one passenger died in 11.5 years - but Britain can still learn from German tragedy

#### Modern Railways @Modern\_Railways

Our international correspondent Keith Fender will be on @BBCNews channel at 5.00 talking about the devastating German rail crash



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Railfuture Internat @RailfutureInter · Feb 7

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Can @NetworkRail learn from the US how to store electricity from braking trains on Britain's 3rd-rail network?



#### IRJ @railjournal

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SEPTA to extend energy storage capability on Philadelphia's busiest urban rail line bit.ly/1VvbaHL

# RAN PUTUME

## Railfuture Internat @RailfutureInter · Feb 7 Britain is lagging behind on ERTMS/ETCS roll-out. Only one route (in Wales) so far, with ECML conversion years away



#### IRJ @railjournal

ERTMS deployment underway on Spain's Atlantic Corridor bit.ly/1m0caHV



Could crowdfunding enable new passenger services in Britain? Key issues: lack of paths & DfT dislike of open access



#### IRJ @railjournal

German open-access passenger start-up @locomore reaches Stuttgart - Berlin crowdfunding goal bit.ly /1UtgafT



# Railfuture Internat @RailfutureInter · Feb 7

Good news for cross-border travel. @Railfuture was briefed on issues at @EUpassengers meeting in London in January



#### IRJ @railjournal

Copenhagen - Stockholm SJ services to resume from March 1 bit.ly/20sFwBO





### Railfuture Internat @RailfutureInter · Feb 7

Could Norway learn from both successes and failures in British railway tendering? Article: railfuture.org.uk/article1651-20...



#### IRJ @railjournal

Norway begins competitive tendering for passenger services bit.ly/1nPvrh5



Good for New York. Edinburgh only new UK tram system in 12 years though many expanding. Will UK see another new one?





# Railfuture Internat @RailfutureInter · Feb 7

Bustitution because of wheel wear is reminder of problems on #Felixstowe & #Sudbury branches but leaf-fall not cause



#### IRJ @railjournal

Excessive wheel wear cripples V/Line rail passenger services in Victoria, Australia ow.ly/XZ0fV



#### Railfuture Internat @RailfutureInter · Feb 7

Modern, sleek, sexy-looking trains attract people to railway. Malayan Railway's train not unlike British equivalents



#### IRJ @railjournal

Malayan Railway (KTMB) expands electric long-distance passenger rail servcies ow.ly/XZNir





# Railfuture Internat @RailfutureInter · Feb 3

Pantograph design used in other countries is often more robust than UK. Damage like @Virgin\_TrainsEC example is rare



#### Virgin Trains EC @Virgin\_TrainsEC

#VTECUpdate The cause of delays between Northallerton/Darlington. Broken pantograph literally stops us in our tracks



SNCF website makes buying M-Ticket for Eurostar/TGV services look easy. Have you tried? Reply to @RailfutureInter



£3-

#### VoyagesSncf\_UK @VoyagesSncf\_UK

Always on the move? Take us with you and have the railways of Europe at your finger tips uk.voyagessncf.com/en/mobile



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Railfuture Internat @RailfutureInter · Feb 1

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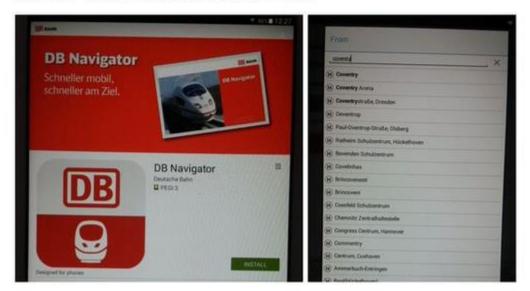
In 2015 @Railfuture survey described @Eurostar trains as "tired". In 2016 @philatrail says "shabby & beyond tired". railfuture.org.uk/article1606-Eu ...

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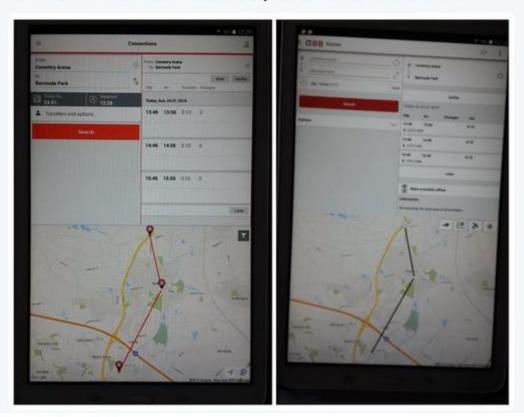
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Railfuture Internat @RailfutureInter - Jan 24

Deutsche Bahn & ÖBB train planning apps allow 'partial match' station searches - unlike British apps and web-sites



Deutsche Bahn & ÖBB train planning apps include route map - both know British stations - even ones opened this week!



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Railfuture Internat @RailfutureInter - Jan 19 Personal retractable litter bins on Austrian Railjets keep trains cleaner and much more pleasant - no excuse!



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When will British trains tell passengers how fast they are travelling and their revised ETA when delayed?



Railfuture looks at international best practice to implement in Britain. Modern trains have displayed real-time speed for more than a decade but none do in Britain (yet). Austrian Railjet trains have excellent customer displays. Sadly this international train from Switzerland is 29 minutes late. But at least passengers are told their new estimated arrival time. www.railfuture.org.uk Austrian railways operate efficiently on remote rural railways but still provide good customer service by innovation



Railfuture looks at international best practice to implement in Britain. Austrian railways has many innovations, especially on its rural routes. Driver's cab door allows doubles as a ticket window, and passengers at request stops inform driver by pressing button on platform. www.railfuture.org.uk



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Railfuture Internat @RailfutureInter - Jan 19

Austrian remote rural Anthering station (request stop only) has a cycle shelter Britons can only dream about





At Salzburg Hauptbahnhof passengers use electronic display to see where to stand for carriage - reduces dwell time





#### Railfuture Internat @RailfutureInter - Jan 8

New York Subway new carriages will have powerpoints to charge phones. Every station will have Wi-Fi by end of 2016. dailymail.co.uk /news/article-3...



Railfuture Internat @RailfutureInter · Jan 8

3-month trial on @Eurostar for 'ultra light railfreight' - #Boomerang links passengers with purchasers via PayPal. railwaygazette.com/news/passenger ...



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#### Railfuture Internat @RailfutureInter · Jan 8

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Interesting how Berlin rental prices vary between stations. To what extent do fares & rail capacity relate to rent?

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#### UITP @UITPnews

Berlin #metro map shows apartment rental prices around stations. bit.ly/1UBqq5I #publictransport

View summary



Railfuture Internat @RailfutureInter · Jan 5 PAYG smartcards increasingly used but passengers must check out. Demark plans an app to check out your 'Rejsekorte' if you forgot at station



Railfuture Internat @RailfutureInter · 24 Dec 2015 Campaigns by @Railfuture consider international best practice. Useful @UITPnews recommendations on automatic metros: uitp.org /news/automated...



Railfuture Internat @RailfutureInter · 18 Dec 2015 Austrain rail operator ÖBB contracts Nomad Digital to install w-fi on 1,000 trains + 2,000 of its buses. Huge order. railwaygazette.com /news/news/euro...

The above give a flavour of Railfuture's activities on studying and promoting international best practice when campaigning for a bigger and better railway in Britain.

www.railfuture.org.uk www.railfuturescotland.org.uk www.railfuturewales.org.uk www.railwatch.org.uk follow us on Twitter: @Railfuture @Railwatch Join Online at www.railfuture.org.uk/join

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