

Impacts are ranked in comparison to the baseline scenario between -2 (strong negative impact), 0 (neutral) and +2 (strong positive impact). The baseline scenario has a reference score of 0 for all impacts.

Expected overall development: Traffic will increase, more HGV, more vkm over the entire network, more congestions, higher TPA occupancy

Key business goals	Business requirements	I. Baseline Scenario - No EU intervention		II. Voluntary static data/MS dissemination	
Driver					
Efficient driving	Avoid searching and waiting time	0	Increased searching and waiting time	0	Increased searching and waiting time
Parking comfort	Facilities	0	Increased frequency of off-site parking and overcrowded parking areas	0	Increased frequency of off-site parking and overcrowded parking areas, information remains unreliable
Safety	Prefer safe TPA	0	Present situation persists	0	Present situation persists
Minimise hassle with transactions related to parking (information, reservation, payment)	Avoid to pay TPA on personal expenses	0	Present situation persists	0	Present situation persists
TPA Operator					
Maximise turnover (private TPA)	Maximise occupancy	0	Occupancy improves slowly, good occupancy rates are reached only in specific locations	0	Occupancy improves slowly, good occupancy rates are reached only in specific locations
Provide sufficient capacity (public TPA)	Avoid misuse for other logistic purposes than parking	0	Demand management on existing TPA becomes increasingly difficult due to increasing traffic and lack of information	1	ITS for efficient capacity use becomes an option to expanding capacity
Reputation	Avoid on-site crime	0	Present situation persists	0	Present situation persists
Limit investments		0	Investments are limited to flagship operations for real-time information in specific situations of opportunity Investment costs remain high, no decrease of market prices	0	Investments are limited to flagship operations for real-time information in specific situations of opportunity Investment costs remain high, no decrease of market prices
Limit operational costs	Avoid vandalism, rowdy behaviour	0	Increased need for on-site presence in situations of overcrowding and misuse (public TPA)	0	Increased need for on-site presence in situations of overcrowding and misuse (public TPA)
Road authority					
Road safety	Avoid off-site parking and queuing, avoid excess of driving times	0	Increasing accident risk related to off-site parking and queueing	0	Increasing accident risk related to off-site parking and queueing
Optimal traffic flow	Avoid off-site parking and queuing	0	Increasing disturbance of traffic flow by queues at TPA entrance	0	Increasing disturbance of traffic flow by queues at TPA entrance
Haulier					
Efficient daily operations : optimise driving time and distance, minimise parking fees and fines, efficient and flexible trip planning	Avoid searching and waiting time	0	Increased searching and waiting time	0	Increased searching and waiting time
Driver safety	Avoid theft and robbery	0	Present situation persists	0	Present situation persists
Vehicle safety	Avoid theft and robbery	0	Present situation persists	0	Present situation persists
Cargo safety	Avoid theft and robbery	0	Present situation persists	0	Present situation persists
Cargo owner					
Cargo safety	Avoid theft and robbery	0	Present situation persists	0	Present situation persists
Insurance company					
Cargo, vehicle and driver safety	Well-defined responsibilities in case of damage event	0	Present situation persists	0	Present situation persists

Key business goals		III. Voluntary static data/ app. data dissemination	IV. Mandatory static data/MS dissemination	V. Mandatory static data/app. data dissemination	
Driver					
Efficient driving	Increased searching and waiting time	1	Searching and waiting times can be managed more efficiently due to planning with full information on TPA provisions	2 Searching and waiting times can be managed more efficiently due to planning with full information on TPA provisions; around Hot Spots dynamic information is well received and supports efficient distribution	1
Parking comfort	Improved and more reliable service descriptions guide drivers to desired parking comfort	1	Reliable service descriptions guide drivers to desired parking comfort	1 Reliable service descriptions guide drivers to desired parking comfort	1
Safety	Present situation persists	1	Integration of common safety ratings into TPA information	1 Integration of common safety ratings into TPA information	1
Minimise hassle with transactions related to parking (information, reservation, payment)	Present situation persists	0	Present situation persists	0 Service provider charge a small fee for extended services based on dynamic information (forecasts, wider scope), basic dynamic services are free of charge	-1
TPA Operator					
Maximise turnover (private TPA)	Occupancy improves slowly, good occupancy rates are reached only in specific locations	1	Standardised information on service levels enables direct comparability and increases occupancy of well featured TPA	1 Dynamic information around Hot Spots prevents overcrowding; improved quality for users but less customers in facilities	1
Provide sufficient capacity (public TPA)	ITS for efficient capacity use becomes an option to expanding capacity	1	ITS for efficient capacity use is an option to expanding capacity	2 Dynamic information around Hot Spots prevents overcrowding, data can be used to adjust capacity expansions	1
Reputation	Present situation persists	0	Present situation persists	0 Present situation persists	1
Limit investments	Investments are limited to flagship operations for real-time information in specific situations of opportunity Investment costs remain high, no decrease of market prices	0	Investments are limited to flagship operations for real-time information in specific situations of opportunity Investment costs remain high, no decrease of market prices	-1 Around Hot Spots data collection becomes mandatory, operators are compelled to implement systems, technology costs stabilise	0
Limit operational costs	Increased need for on-site presence in situations of overcrowding and misuse (public TPA)	-1	Inventory of available lots must be collected, updates have to be provided	-1 Maintenance of technical solutions for data collection, over time systems will become more mature	-1
Road authority					
Road safety	Increasing accident risk related to off-site parking and queueing	1	Increase of unsafe parking behaviour is checked	2 Overcrowding of TPA and associated safety risks are significantly reduced	0
Optimal traffic flow	Increasing disturbance of traffic flow by queues at TPA entrance	0	Increasing disturbance of traffic flow by queues at TPA entrance	2 Traffic management becomes more efficient, queues at entrance to TPA are avoided	0
Haulier					
Efficient daily operations : optimise driving time and distance, minimise parking fees and fines, efficient and flexible trip planning	Increased searching and waiting time	1	Searching and waiting times can be managed more efficiently due to planning with full information on TPA provisions	2 Planning and dynamic adjustments of trips is possible, overall increased efficiency due to avoided delays	0
Driver safety	Present situation persists	1	TPA destinations can be pre-planned according to needs/expectations	2 TPA destinations can be pre-planned according to needs, around Hot Spots dynamic adjustments are possible	0
Vehicle safety	Present situation persists	1	TPA destinations can be pre-planned according to needs/expectations	2 TPA destinations can be pre-planned according to needs, around Hot Spots dynamic adjustments are possible	0
Cargo safety	Present situation persists	1	TPA destinations can be pre-planned according to needs/expectations	2 TPA destinations can be pre-planned according to needs, around Hot Spots dynamic adjustments are possible	1
Cargo owner					
Cargo safety	Present situation persists	1	Agreements on desired TPA standards and service levels can be arranged based on reliable information	1 Agreements on desired TPA standards and service levels can be arranged based on reliable information	1
Insurance company					
Cargo, vehicle and driver safety	Present situation persists	0	Present situation persists	0 Present situation persists	0

Key business goals		VI. --> III.+ Reservation	VII. --> V.+ Reservation
Driver			
Efficient driving	Increased availability of dynamic information and limited possibility to reserve parking ahead around some Hot Spots	2	Searching and waiting times can be managed more efficiently due to planning with full information on TPA provisions; around Hot Spots dynamic information is well received and supports efficient distribution, reservation services support this development
Parking comfort	Improved and more reliable service descriptions guide drivers to desired parking comfort	1	Reliable service descriptions guide drivers to desired parking comfort
Safety	Reservation in high risk Hot Spot areas become viable	1	Integration of common safety ratings into TPA information
Minimise hassle with transactions related to parking (information, reservation, payment)	Reservation services will incur a fee, payment methods will slowly develop	-1	Service provider charge a small fee for extended services based on dynamic information (forecasts, wider scope), reservations are more expensive but payment methods will develop, basic dynamic services are free of charge
TPA Operator			
Maximise turnover (private TPA)	Occupancy improves slowly, good occupancy rates are reached only in specific locations; only in some Hot Spots exist business cases for reservation services	1	Dynamic information around Hot Spots prevents overcrowding; improved quality for users but less customers in facilities
Provide sufficient capacity (public TPA)	ITS for efficient capacity use becomes an option to expanding capacity, reservation services support capacity management in some Hot Spots	2	Dynamic information and reservation services around Hot Spots prevent overcrowding, data can be used to adjust capacity expansions
Reputation	High value cargo transports can aim for high security parking reservations around some Hot Spots	1	High value cargo transports can aim for high security parking reservations around some Hot Spots
Limit investments	Investments are limited to flagship operations for real-time information in specific situations of opportunity Investment costs remain high, slow decrease of market prices	-1	Around Hot Spots data collection becomes mandatory, operators are compelled to implement systems, technology costs stabilise
Limit operational costs	Maintenance of technical solutions for data collection, maturity of systems evolves slowly	-2	Maintenance of technical solutions for data collection, implementation of reservation services requires additional staff and high accuracy and forecasts, over time systems will become more mature
Road authority			
Road safety	Slowly increasing accident risk related to off-site parking and queueing, measures only benefit very limited user group	2	Overcrowding of TPA and associated safety risks are significantly reduced
Optimal traffic flow	Increasing disturbance of traffic flow by queues at TPA entrance, measures only benefit very limited user group	2	Traffic management becomes more efficient, queues at entrance to TPA are avoided
Haulier			
Efficient daily operations : optimise driving time and distance, minimise parking fees and fines, efficient and flexible trip planning	Increased searching and waiting time in general; high value and hazardous goods transports benefit from reservation services around Hot Spots	2	Planning and dynamic adjustments of trips is possible, for high priority transports reservations between most Hot Spots can be arranged; overall increased efficiency due to avoided delays
Driver safety	Present situation persists	2	TPA destinations can be pre-planned according to needs, around Hot Spots dynamic adjustments and reservations are possible
Vehicle safety	Present situation persists	2	TPA destinations can be pre-planned according to needs, around Hot Spots dynamic adjustments and reservations are possible
Cargo safety	For high value loads reservations become an option around some Hot Spots	2	TPA destinations can be pre-planned according to needs, around Hot Spots dynamic adjustments and reservations are possible
Cargo owner			
Cargo safety	For high value loads reservations become an option around some Hot Spots	2	Agreements on desired TPA standards and service levels can be arranged based on reliable information; for high value loads reservations become an option around some Hot Spots
Insurance company			
Cargo, vehicle and driver safety	Present situation persists	0	Present situation persists