Intervention	Context	Input	Output		Impact
 Consolidate data sources 	The objective of this intervention is to open up access to existing digital data sets and	I IT technician to configure 1 server (already purchased) to host the	Establish a 'Data Lake' of parking related activity data hosted on an		By putting in place data standards and consolidated our data into one
	develop additional capability and service efficiencies.	consolidated data (or to develop Sharepoint site) 1 IT technician to develop the export APIs (if direct export from data	machine sales, online and app sales, permit purchases, enforcement	widespread open data and data sharing.	'Data Lake' we will have the ability to efficiently report across a number of data systems in a variety of ways for different purposes and
	The Council uses a number of systems, provided and hosted by external suppliers, to manage and collate parking related data.	systems not possible) 1 Project Manager to oversee the project	activity, park and ride sales and planned maintenance works.	Ability to extend to incorporate add other datasets in the future.	audiences, inlcuding the DfT.
	Key existing datasets comprise:	1 Project Officer to co-ordinate and support project delivery, including	The system will include :		This will support the council to improve transport operations and to
	1. Chip side (Enforcement data)	developing the specification of the data catalogue and systems for	* a data export and standards specification		highlight potential inefficiences (see sub-project 1.2).
	2. Mipermit (Income & usage through mobile app, season tickets and permits)	automating the cleansing of data. The Project Officer will also train the			
	3. Parkfolio (Income & usage through ticket machine data on and off street)	admin officer who will undertake the future monitoring of the	not possible) from the 5 datsets onto the server.		The system will have future further scope to develop to include data
	4. Raven Meadows multi storey (Income & real time usage data)	completed system.	* extraction of TRO information and meta data from 2 datasets onto		from other departments and partners e.g. cycling, weather, town
	5. P&R data via Arriva (Income & usage, ticket machine data)	1 Admin Officer (from Public Protection department) to monitor the	the server.		centre footfall, air pollution, visitor numbers. This additional data will
	6. Confirm (parking metadata eg geolocation, times of operation, tarriff and occupancy)	completed system	* a data retention schedule		help us to monitor the impact of our parking strategy on related
	7.Parkmap (TRO records system detailing restricted/unrestricted parking, CPZs etc)				strategic outcomes such as behaviour change (encouraging visitors to utilise the P&R and making our tourist towns easier and more
	These datasets are managed by external suppliers with licences held by the council in order				attractive to access) reducing traffic flow in our market towns and
	to view standard reports and export data. Access to the 6 datasets is currently available via				reducing air pollution at bottle neck points.
	4 members of staff who have each have access to some but not all of the datasets.				
	Each dataset is held in a standalone system that is able to report within its own system				
	environment but is unable to communicate with any of the other systems. Each system is				
	capable, to varying degrees, of exporting raw data on a request basis but this and the				
	following analysis and reporting is resource intensive and time consuming. It is currently				
	impossible to consolidate the data from these systems in such a way as to see a realtime				
	picture of parking behaviour across the county.				
2. Automated reporting	The objective of this intervention is to improve and automate our capability to analyse	PowerBI Premium licence to develop and share internally and	·	Using Microsoft PowerBI to interrogate the 'Data Lake' (see 1.1) we	· ·
	historic parking occupancy and compliance data hence further develop our policy and	externally interactive reports.	·	will build a series of standard reports that are refreshed automatically	
	strategy options.		weekly basis reports will be virtually real time.	without the need for repeated analysis and report writing. This will	·
	· · · · · · · · · · · · · · · · · · ·	PowerBI training (3 days for the Project Officer)		include the Parking Annual Report and monthly financial reports. The	, , ,
	accordance with Section 55 of the Road Traffic Regulation Act 1984 is required to keep an	1 December 1 and at affirm and a with a Duniant Office New Joseph December 1	Once built, the reports will automatically update and analyse data	· ·	We have the ability to publish data often requested under FOI
	account of their income and expenditure in respect of parking places and designated	1 PowerBI trained staff member (the Project Officer) to develop Power	from across all sources in the 'Data Lake' (see 1.1).		requests making the informationmore open and reducing officer time
	parking places for which it is responsible. At the end of each financial year any deficit in the account is required to be be made good out of general funds and any surplus shall be	Public Enforcement and Finance Teams in how to use and interrogate		External as well as internal reports which will support the DfT vision of	to respond.
	applied for specified purposes and carried forward until applied to carrying it out.	the final reports.		open data and data sharing as well as encouraging innovation in the	
	applied for specified parposes and carried for that a difficult applied to carrying it can	1 staff member from the web team to build an internal sharepoint		private sector supply chain.	
	Currently £25,000 revenue funding is provided to the Public Protection department to	and an external web page to host the PowerBI reports.		princes control of the control of th	
	produce reports, including the Parking Annual Report, summarising service statistics,	, 5		These will support the council to improve transport operations and to	
	enforcement statistics and financial information. Numerous data requests are made across			highlight potential inefficiences (see sub-project 1.2).	
	council departments and our external park and ride provider for data that is analysed using				
	a mixture of the seperate data system reporting tools and Excel and then written in formal				
	reports produced in Word before being manually uploaded to our website				
	(internal/external). The production of these reports, and any bespoke request reports, is				
	resource intensive due to the nature of the how the data is stored (see 1.1) and the manual				
	nature of the analysis and reporting.				
3. Visitor Information	The objective of this intervention is to develop available parking data to contribute to our	1 staff member from the web team to develop a website designed for	A website designed for all devices and that will provide a single source	Providing improved service journey planning service to visitors,	Provide an improved customer experience related to parking
	mobility agenda.	all devices and ensure accessibility and branding compliance.	of information to inform the visitor:	specifically including those with disabilities.	Supporting the local visitor economy
			* Geolocation of car park/P&R/bus stops		
		Support from:	* Hours of operation	Ability to extend the service to assist with the promotion of events.	
	of web sources in order to plan a journey to or within the county:	1 staff member to support with GIS data from the GIS Team	* Frequency of operation (P&R/bus)		
	* Council car parking sites and related information (Council hosted)	1 staff member to support with data from Gazetteer and Network	* Tariffs & concessions		
	* Park and ride sites and related information (Council hosted)	Management (Street Works Team).	* Duration of stay (car parking)		
	* Bus routes and related information (Partner hosted)	4 and the transport of the control of	* Geologation of ticketing machines		
	* Roadworks.org (External hosted)	1 project manager to oversee the project	* Geolocation of disabled bays		
	It is not assumently possible for a visitor to have one assumenting view of lead transport	1 project officer to an auditate and support the delivery of the project	* Number of bays (by car/disabled/motorcycle/coach etc) bays		
	It is not currently possible for a visitor to have one overarching view of local transport options and information.	1 project officer to co-ordinate and support the delivery of the project,	* Option to sign up to push/email notifications (eg car park closures		
	options and information.	for example to collect and collate inventory information regarding parking assets.	due to flooding/events) * Link to online/app car parking (MIPERMIT) and bus ticket purchasing		
		parking assets.	websites		
			* Key events calendar with geolocator		
			* Feed from traffic social media accounts (flooding, car park closures)		
			Town centre loading bays and preferred routes. Could apply to		
			coaches as well		