people in industrial or commercial employment, at 17%, compared with Germany's. Here Hungary is not included. Of course, the scale was still very small relative to what was to come – a million tons of coal produced in 1850, for example, compared to 43 million in 1913.

How had this come about? The Monarchy had several of the traditional prerequisites for industrialisation. Its population increased by 40% from the late eighteenth century to 1848, to some 33.7 million. More to the point was the particularly rapid growth in German Bohemia, whose strong traditions of domestic textile industry made it easier to support larger families than on the land, thereby creating a reservoir of labour. The presence of coal and iron in largely German parts of Bohemia and Moravia, as in Styria and Upper Austria, enhanced the highly regional bias in Austrian development, for cultural dominance, proto-industrial traditions and natural resources went together.

on the Moldau, later built by his son (1832), while the Viennese polytechnic professor Riepl brought back experts from a study tour of drawn, railway in Austria, from Linz to Budweis (Ceské Budějoyice tion, expanded in the Enlightenment, had continued to develop, with west, to be built by the state if necessary. Austria's engineering tradition ships began to ply the Adriatic in 1818 and the Danube in 1831. Govern England to introduce the iron-puddling process to Austria. Prague mathematician Gerstner planned the first, albeit horse Graz (1844). Their teaching staff were not just pedagogues. The the foundation of polytechnics in Prague (1807), Vienna (1815) and vided for an additional three main routes south, south-west and long after Salomon Rothschild's Nordbahn from Vienna to Olmutz ernment was relatively quick to see the importance of railways. Not thence the Elbe, Bohemia's outlet to the North Sea. Regular steams a canal linked the Danube (now regulated) with the Moldau and between the Danube and the river Tisza were opened to trade, while roads grew two and a half-fold. Large areas of the Hungarian plain (Olomouc) in Moravia had been begun in 1836 official plans prothousand miles of main roads were built and the network of side Communications also improved greatly in these years. Some two

This example suggests the crucial role of foreign and particularly English techniques in early industrial development in the Habsburg lands. Count Karl Zinzendorf had praised Manchester as early as 1769. The Lombard Count Confalonieri, returning from England in 1819, ordered from there an engine for a steam-boat on the Po.

spuld write to a native audience, 'Bless a thousand times the ashes of will certainly be known to the reader. height and the Hungarian aristocratic reformer István Széchenyi and John Thomas, Thomas Bracegirdle and David Evans, and cularly Rhinelanders. Between them the British engineers Edward [Mdam] Smith and [Arthur] Young and their immortal works which Ighting to Vienna. It was a time when British prestige was at its the first bridge over the Danube at Budapest and the supply of gas-Danube and the Adriatic steamship companies, the construction of the pioneering Moravian iron works of Vitkovice, the start of the Böhemian machine-building industry. Englishmen were involved in though they were also often mediated through German agents, parti-English skills could be transmitted more openly and in person, the secrets of wool-spinning machines from England. As time passed company in 1805 claimed to have spent 70,000 florins on purloining ary mind. Early borrowings often had to be surreptitious: a Brno from Metternich, intrigued to plumb the workings of the revolutionsoned in the notorious Spielberg prison in Brno and received a visit system. He became involved in the Carbonari movement, was imprigas-making apparatus and information on the Lancasterian schools Isseph Lee helped set up what became the three leading firms in the

tration itself. 'All kinds of compulsion and restriction are the mortal enemies of industry', opined the Hofkammer; 'only where a liberal administration leaves free play for the spirit of enterprise will it raise its mighty head and take bold wing'. Frequently central government overrode local authorities when these withheld the issuing of lactory licences. A perceptible embourgeoisement of industrial enterprise followed, though great nobles could still be preponderant in tertain fields like the iron industry and the new, agrarian-orientated sugar beet manufacture. Three-quarters of the sugar beet factories founded in Hungary before 1848 were on noble properties and their own paper.

It was in the textile industry that middle-class entrepreneurs came most clearly to the fore. A trading background was more common than one in banking or handicraft. Thus Moravian carpet factories, when not foreign-owned, were founded by Jewish wool merchants; early Slovene industry was pioneered by Ljubljana wholesalers; Jews again built on their traditional mercantile roles in thungary, which varied from local hawker and regional factor to the