

and his work on scientific management Simon Harrison considers the contributions of F. W. Taylor In the first of a series of articles on motivation theorists,

their earnings and hence their standard of workers, by allowing both groups to raise create harmony between managers and as a villain, whose methods have enslaved in his Principles of Scientific Manage-However, Taylor's original intention was to workers to a life of monotonous drudgery. ment, in 1911. Today, he is often portrayed 1900s. The resulting ideas were published rederick W. Taylor has been a ment circles ever since his management in the 1890s and controversial figure in managepioneering work on scientific

# The historical background

guage, and generally no experience of disoften came from poor agricultural regions, of the twentieth century, a time when new ciplined work in a factory. had little knowledge of the English lanworkers from Europe. These workers was experiencing a huge influx of migrant being introduced. Simultaneously, America technologies and forms of production were Taylor was working in America at the turn

employer and employee alike. believed were holding back the wealth of cies and poor working practices that he such workers. He observed the inefficienleged background, had worked alongside Taylor himself, although from a privi-

> specified production requirements and left tive and incentive system. Management workers to decide how they would do the form of managerial direction was an initiamanagers. Prior to Taylor, the standard Taylor's objections to this were two-fold: task and which tools they would use Taylor laid the blame firmly at the feet of

tools, which were not always suited to the Often, workers would bring their own their own work, and used methods that job at hand, dramatically reducing producwere based on untested 'rules of thumb' meant that they were ill-equipped to plan The poor education levels of workers

doing the work is incapable of fully underworkman who is best suited to actually is so great and amounts to so much, that the which underlies each act of each workman In almost all the mechanic arts the science

majority of cases [this] man deliberately workers not to want to work hard. 'In the that higher productivity would lead to job were two main reasons for this — the fear give maximum effort. Taylor felt that there plans to do as little as possible.' losses, and also a natural tendency in which Taylor meant to slack off and not (2) Workers were inclined to 'soldier', by

who were simply promoted workers rather than managers, this soldiering sometimes Because work was directed by foremen

> surplus item, a major disincentive to being exceeded a certain output per day, then became formalised in the payment system. In one factory, if tool and die makers foremen would dock their pay for each

employer and employee alike. agers), leaving workers to follow instrucductivity which would benefit both would lead to a dramatic increase in protions given. This specialisation of tasks the hands of those most capable (mandirecting of work should be diverted into Taylor proposed that the planning and

## Scientific management

ties, rather than jobs being given to friends selected for jobs according to their abilineed for workers to be scientifically one set of actions. Taylor stressed the their abilities, each of them performing tributed between workers according to core elements. These could then be displified so that they were broken down into that jobs should be standardised and simtools was impossible to monitor, and also worker used their own techniques and inherently inefficient. Taylor proposed ble. The prevailing situation in which each work in the most efficient manner possifully planning workers' movements and tion, efficiency could be increased by care-Having separated out the planning func-

> introduced at the Ford Motor Company notably on the mass production processes Taylor's methods were highly infuential, mosi

his was quite radical at the time. and acquaintances. While obvious today

carry out operations under expert supertasks, selecting above-average workers to ing of every action that was involved in the would involve careful timing and monitorwould be analysed for each task, which vision. A variety of different methods Taylor focused on undemanding, repetitive determined was 'time study'. Generally, dardisation and simplification was to be The mechanism through which this stan

to what had gone before. thereby revolutionising production relative goal was that all workers would use the compare and measure tasks. The ultimate and tools, and so it was impossible to each worker had used their own methods done quickly and efficiently, and be monismall, simple sub-tasks which could be pared with previous practice. In the past tored. This was a major breakthrough comone best way' of carrying out any task The aim was to break down the task into

employees act)

achieve higher productivity. productivity, and his thoughts on motiva-It is a misconception to call Taylor a motivational theorist. Taylor was interested in ion enter into his work only as a means to

much the same way as he might view a work faster, it simply required more required more power; for a worker to machine. To make an engine work faster As an engineer, Taylor viewed workers in would respond directly to financial inputs man'; that employees sought only to maxreward would be irrational, so workers mise their own wealth. To work without Taylor believed in the idea of 'rational

The evidence

piece-rate system, so that workers are payment by results using a differential priate worker is selected for each task workers for tasks, so that the most appro- the scientific selection and training of the 'one best way' to be determined the systematic study of work to allow

motivated' to invest effort

make a direct link between output and pay units to earn the lower rate, they wouldn't output. If they only produced sufficient workers a real incentive to maximise rate per unit once that output had been output per day, but a much more generous piece rate. This system offered a very low and his key proposal was a differential reached. This, Taylor argued, would give rate of pay per unit up to a certain level of Thus, Taylor believed it was essential to

(1898 prices). Within 3 years, costs of hand-

 a clear division of tasks between management and employees (managers plan, 38%, and workers' earnings rose by 18% of 122%, labour costs were reduced Ford), productivity increased by an average

the men. cooperation between the management and one of Taylor's original goals, that both a consequence, both would welcome the from the changes. Taylor believed that, as employee and employer would benefit These gains demonstrate to an extent

to obey the orders we give them, do what completed simple repetitive tasks without [from workers]. All we want of them is any input: 'We do not want any initiative directed their own work. Afterwards, they different. Before Taylor, workers had

Schmidt, for example, was sufficiently was overlooking was that all workers have or initiative from workers. What Taylor tasks to be so simple as to require no input make-up the ox.' Hence, Taylor designed stupid...that he resembles in his mental oxen — a pig-iron handler 'shall be so of work. In another memorable quote, talented to build his own house in evenings more to contribute than sheer muscle. Taylor compared the pig-iron loaders to The consequence was the dehumanising

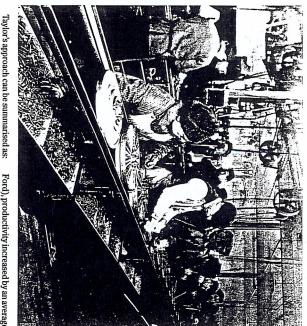
that Taylor predicted never materialised, This meant that the industrial harmony labourers earning 63% more per day. to 140, with each of the remaining 140 and labourers had been reduced from 500 ling each ton of iron had been cut by 50% wages rose from \$1.15 per day to \$1.85 would have been his norm. Schmidt's of steel per day instead of the 12.5 that impressive, with Schmidt loading 47.5 tons to be the 'one best way'. The results were way of working to what Taylor considered Taylor persuaded Schmidt to change his load 92-pound 'pigs' of iron into wagons. Bethlehem Steel Works, whose job was to involved Schmidt, a labourer at the for his methods. One well-known study Taylor claimed spectacular successes

Within 40 years, it was claimed that in

tirms using Taylor's principles (including

### Taylor and motivation

really make enough to live.



changes leading to 'intimate and friendly

we say, and do it quick.' The reality, however, was somewhat

strangely familiar. as if second nature', which sounds Train people to follow rules and standards to improve, but also about the need to employees to be involved in helping Toyota aging director, spoke about the need for in 2003, Teruyuki Minoura, Toyota's manon Toyota's 'Thinking Production System' stems from Taylor's approach. In a speech today's cutting-edge management thinking Indeed, some would say that much of

as might at first have been thought. Perhaps not so much has changed follow it until a better one is discovered. that 'way' has been found, employees must for the best way of operating, and that once there is still a sense that they are searching Toyota are involving staff in decisions, While it is true that firms such as

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> quently the rising power of trade unions. across America and Europe, and conse-

ways to get the most out of employees. work, which are viewed as more effective opments include empowerment and teaminputs that they can make. Modern develwith other employees and the valuable logical needs of workers, their interactions moved on, taking into account the psycho-Since then, motivation theory has

wasted time. of factories are designed to minimise aircraft cockpits and the efficient layouts legacy lives on — the ergonomic design of of his ideas appear outdated today, his tions using his principles. Although some of employees who worked in organisamethods did succeed in raising the wages were generally living in poverty. Taylor's with low levels of skills and literacy, and core of his studies were poorly educated, his times. The employees forming the Nevertheless, Taylor was a man of

> America's military preparations. fearing that strikes might disrupt Taylor's methods in the defence industry, resulting in the US Congress banning industrial unrest was observed elsewhere, and riots at their Billancourt plant. Similar agement principles in 1912, it led to strikes When Renault introduced scientific manand in fact the reverse was often true.

### Conclusion

contributed to growing industrial unrest tions. Taken together, these three beliefs contribute by way of ideas and suggestion that labourers can have nothing to purely motivated by money, and the asserwork, the assumption that workers are centres around the dehumanisation of as commonplace. Rather, the criticism work, which are these days accepted his scientific management methods of The biggest criticism of Taylor is not of

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\_ \_ budgeting can stop costs from creeping ever-upwards. a major internet service provider. Microsoft's rival to Sony's Playstation. \_\_\_ capital is the day-to-day finance for running the business. \_ \_ \_ \_ is the effect on profit when actual results vary from budget. : a feature that only one product has. are short-term responses to opportunities or threats. capital provides long-term funding for business. is quantity sold multiplied by price. — — — — — research measures the percentage of responses to closed questions. \_ \_ \_ \_ child: a product with a low share of a growth market. - - - - - - are a highly flexible way to borrow from a bank. O C E C E Cash in minus cash out.  $\mathbf{M} = - - - = \mathbf{M}$ \_ \_ \_ \_ \_ assets gives possession without ownership. \_\_\_\_ the market is a strategy for high pricing. mail is a term used for leaflets posted in a poorly targeted direct mail campaign. costs are overheads, such as head-office expenses. may prove a better way to make a decision than careful research.  $\mathbf{G}_{----}$  an upbeat phase in the product life cycle. costs may change, but not as a result of output changes. atrategies can prolong a product's profitable lifetime. — — — to profit centres can help motivate managers. keep firms thinking about how to improve. - \_ \_ \_ point is where revenue equals costs. is paid-for communication with customers.