rs in the huge Komatsu haul trucks that are wing a path so accurately set that the miner o ensure it is varied slightly to avoid ing ruts in the road.

ther than driving the trucks during 12-hour , day and night, in the 40-plus degree heat e Pilbara summer, employees are overseeing rocess on computer screens in a control that, for now, is on the site but eventually be moved to the operations centre in Perth. hat we are able to do is take an operator f a cab and give people jobs that are more esting and less monotonous," says the ral manager of the mine of the future am, James Petty.

e more precise driving of the autonomous les reduces fuel use, cuts carbon emissions eads to less wear and tear on heavy million-dollar machinery.

for the drilling at the site, the spacing is perfectly and the depth of each hole and mount of explosives used are more precise when the rigs are operated by humans. The igs can also re-enter the area more quickly ving a blast because there are no humans tect from safety hazards.

k in Rio's operations centre in Perth, an oyee, Jimmy, operates the three drill rigs at Angelas from a series of computer screens comfort of an air-conditioned office d near the airport. It's a far cry from the ous 10 years he spent as a drill rig operator ne sites.

is much better [than being in the Pilbara]," ys of the new role. "It is safer, there is no and vibration and it is much better on the n. I've got children and I see them more. It y positive."

the company, there are also some diate financial benefits. "Our employees up need housing," Walsh says. "Build a house Pilbara today and that is \$800,000 to llion per house and [because of the tions centre] there are 250 houses that we actually need to build."

perhaps the biggest benefit from the tions centre to date has been improved ctivity.

s global head of technology and ation, Preston Chiaro, says productivity in the mining industry have been slowing me due to a reduction in ore grades and cal limits on the ability to keep increasing te of machinery such as haul trucks. have seen improvements in productivity he years but we are petering out, frankly, ne areas," he says. "And in a few areas we ven gone a bit backwards." Rw

an edited version of a story which ısly ran in The Australian Financial Review.



Willing and able: Kevin de Bruin found a niche in the market

Fill a niche to get out of a rut

The founder of this vehicle business began as a tour operator. Then he found another kind of adventure. Report: Jackie Range

Able Bus and Coach founder Kevin de Bruin didn't set out to be a manufacturer but nevertheless has happily become a successful maker of four-wheeldrive and two-wheel-drive vehicles for remote areas.

Amid widespread decline in the car industry and manufacturing more broadly, Perth-based Able Bus and Coach has done what a few others have managed to: find a niche and supply into it.

De Bruin began his business 17 years ago, as a tour company offering West Australian adventure tours for people with disabilities. He quickly realised he needed specialist vehicles for the rugged job.

"Though I had the best vehicle available at the time, it wasn't able to cope with the harsh conditions of the north-west and was struggling to do the job." says de Bruin, who is also managing director.

De Bruin, like many entrepreneurs, came up with his own solution. He had always had an interest in vehicles and their design but had no practical experience. Undeterred, he decided to design and build a four-wheel-drive coach.

Able Bus and Coach modifies trucks - 95 per cent of which are made by Isuzu - and makes them comply with the standards required of buses, including a better braking. They need to be prepared for some rough country - the company's vehicles are driven on dirt roads and through washed-out creeks. They may well be driving on routes 800 kilometres from the nearest town.

It turned out there was a market for such vehicles. "After demand increased for Australian-made coaches that could cope with Australian conditions. our tour business morphed into an Australian coach manufacturing company," says de Bruin.

Making the company's first mining vehicle for Leighton Contractors in 2003, de Bruin now counts mining giants BHP Billiton and Rio Tinto among its clients. The number of vehicles it produces has surged - it's aiming for its 320th by early 2013 and is building 70 this year.

Revenue has grown. In the financial year ended June 30, 2012, the company expects to make revenue of \$10 million, up from \$8.5 million in 2011. But Able's profit margin has come under pressure on the cost of expansion and rising labour costs. De Bruin declined to reveal his profit. The business now employs 32 people and has about 20 contractors.

De Bruin uses his understanding of the conditions the vehicles will face to guide the business and keeps in touch with customers for feedback. He also focuses on quality and local sourcing.

"While it's been tempting at times to look to cheaper options with parts and prefabricated vehicles from overseas, the benchmark has also been high quality, using local suppliers who also understand Australian conditions," he says. "Care has been taken to expand at a rate that keeps up with demand without reducing quality and care."

Export may be in the future. Able Bus and Coach now only supplies the domestic market but has interest from countries including Kazakhstan and Papua New Guinea, most of it from Australian companies abroad. RRW