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## Get involved...

We have had a great response from people keen to join the Newman Futures network pathways.

There are still three slots on each pathway reserved for community members.

If you would like to get involved, check out the pathway goals on page 2 and email [belinda@creatingcommunities.com.au](mailto:belinda@creatingcommunities.com.au)

Newman School children participated in technology training courses as part of Newman Futures in November 2019.

## Newman Futures is Underway

The five working groups established as part of the launch of Newman Futures in November have had their initial meetings to set out priorities on where to direct their energies.

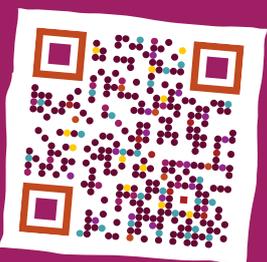
The groups will meet every two months, with the next meetings due in February.

Newman Futures, initiated by BHP and the Shire of East Pilbara, recognises that we need to find new ways of working together as a community as innovation and technology change the nature of work.

There are still opportunities for Newman residents to get involved. Community members can join one of the working groups focused on the pathway that interests them. Contact [belinda@creatingcommunities.com.au](mailto:belinda@creatingcommunities.com.au) for more information.

**...Turn to page 2 to see the five pathways...**

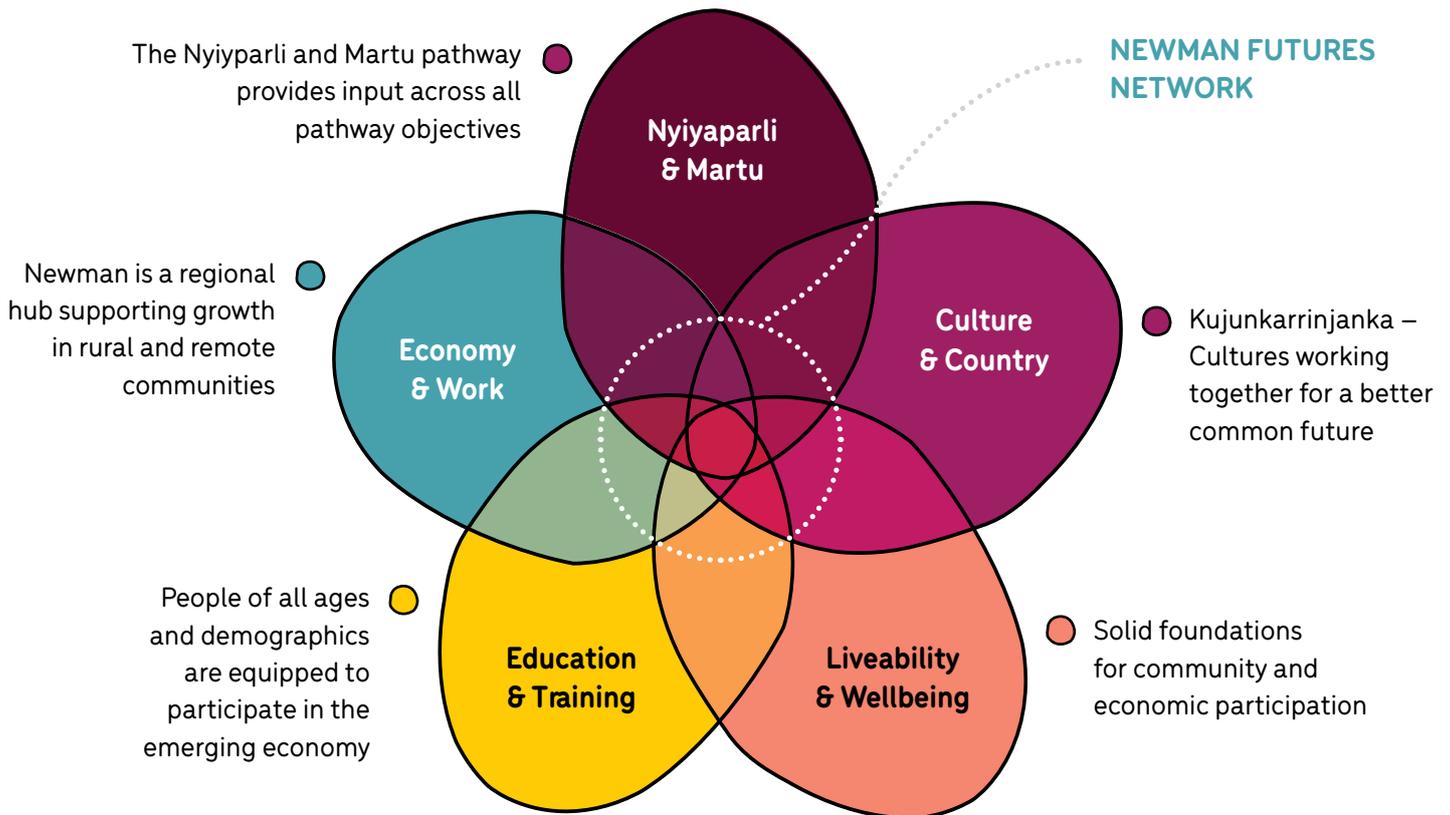
## Game Time!



Scan this QR code with your phone camera to play the game.

Challenge your friends and family to a competition!

...continued from page 1... The below diagram details the five key pathway objectives.



## WDLAC is Back in Town!

Western Desert Lands Aboriginal Corporation (WDLAC) is preparing to open its office in Newman at Newman House.

The traditional lands of the Martu people cover more than 150,000sqkm of the Shire of East Pilbara and includes the traditional communities of Parngurr, Punmu and Kunawarritji.

In addition to on-country communities, Martu people also live in towns and communities throughout the Kimberley and Pilbara, including Jigalong, Nullagine and Newman.

The Newman office will allow WDLAC to be a better advocate for Martu people and contribute to coordinating services.

Martu people and the traditional owners for Newman, the Nyiyaparli people, are directly supporting the Newman Futures project, working with the all of the Newman community, the Shire and industry to make Newman a more liveable and enjoyable place for everyone.

WDLAC chairman Melvin Farmer said he was encouraging Martu people to keep their culture strong and work with the Newman community.

“In this way, our children will feel the strength of their elders, and make a contribution to Newman and Martu on-country communities,” he said.

WDLAC Chairman, Melvin Farmer





Newman school children also got experience coding with Firetech in November 2019

## Primary School Kids Get Coding in 2020

Primary school students in Newman and across the Pilbara are about to get a chance to learn what it's like to control a robot truck or pilot an autonomous drone.

An Australia-first pilot program, known as Resources Challenges: Automation, will be rolled out to Years 5 and 6 students in term one this year. All 24 public schools in the Pilbara and two Catholic schools have signed up, as well as the Port Hedland School of the Air.

Participants will complete a series of coding challenges based on real-life mining scenarios, including handling blast drillers, drones, haul trucks and autonomous underwater vehicles.

The online program aims to increase young people's awareness of and interest in career paths in the resources sector, and to support teachers in delivering the skills industry will need in the future through hands-on classroom challenges.

If the trial is a success, it could be extended to other parts of Western Australia.

The program is a collaboration between the Chamber of Minerals and Energy WA and the Pilbara Collaboration Charter - a partnership between the State Government and mining companies, including BHP.

CME chief executive Paul Everingham said: "Technology is moving very quickly, which is why we need to ensure that today's students are equipped with the skills for the jobs of tomorrow.

"The resources sector is at the forefront of innovation and technology whether it's through the active use of drones or autonomous haul trucks, drills and underwater vehicles. That's why digital technology skills are so vital in the 21st century."

## School Holiday Fun

The Newman Youth Centre has been a hive of activity during the summer school holidays. The jam-packed schedule has included pool parties, sports days, Nightfields and Nerf Gun Night.

Markus, Tramayne, Sebastian and Shakarra are all enjoying preparing for the Nerf Gun Night and getting crafty at the Newman Youth Centre



## Innovation Family Day – 22 February

Newman's first Innovation Family Day offers a range of fun and educational activities for adults and children.

The event will be held in both gyms at the Newman Recreation Centre on February 22 from 9am to 4pm.

The range of activities includes a coding and video game design challenge for children, 3D video game development, virtual reality, 3D printing, Lego robotics, Minecraft zone, augmented reality for kids, digital animation and green screens, and stop motion animation.

All children attending will get a bag with a STEM (Science, Technology, Engineering and Mathematics) kit to take home.

Firetech, Monadelphous and BHP's Innovation Mine at Eastern Ridge are among the businesses taking part, with more to be confirmed.

The family day is run under an innovation partnership between BHP and the Newman Chamber of Commerce and Industry.

Chamber Business Development Manager Tania Tucker said the event would be incorporated in the wider Welcome to Newman event and offered a great day out for the whole family.



Autonomous trucks may look the same as their counterparts with drivers, but there are more than 7,000 additional parts required to give it the 'eyes and ears' needed to navigate around the mine site.

## Autonomous Trucks: How Do They Work?

BHP has been using autonomous haul trucks exclusively at its Jumblebar mine site since 2017 and is now considering expanding its autonomous haulage fleet to more sites across WA as part of ongoing efforts to deliver safer, smarter mining.

So how does an autonomous haul truck work?

Autonomous haul trucks use radar, light detection and special sensor technologies to detect objects, while using GPS and Wi-Fi to send and receive data and movement instructions.

Autonomous trucks know where they are travelling because they follow a virtual model of BHP's mine site.

But for this to happen, it takes people on site and in control rooms to create these virtual models, program the trucks and make sure the right information is being used.

This includes Autonomous Maintenance Technicians and Communications Specialists who make sure that all the technical infrastructure onsite is working as it should be.

In an autonomous environment, this team of people are critical to a successful operation as technology is only as good as the people who run it.

Adam Baillie, an Autonomous System Builder at BHP's Jumblebar mine, says working with the new technology is the best part of his job.

"Today's mine site is very different from the one I started at," Adam said.

"Today, we use drones to film mining to help with training and investigating problems. We have autonomous trucks 'driving' themselves around, and we have new jobs on site, like people who build virtual worlds for the trucks to drive in."

As BHP's technological transformation continues, the company is working with its employees and the community to prepare them for the roles of the future.

# NEWMAN futures

## Stay involved with the project!

Visit the website to keep up to date with the latest activities, sign up to our newsletter, and see upcoming events.

[NewmanFutures.com.au](http://NewmanFutures.com.au)

