

Hon. Malcolm Turnbull MP , Minister for Communications

cc:

Paul Fletcher MP, Minister assisting the Minister for Communications

Lucy Wicks MP, member for Robertson.

Karen McNamara MP, member for Dobell.

Jill Hall MP, member for Shortland.

Deborah O'Neill, Senator for NSW.

Arthur Sinodinos, Senator for NSW.

Committee Secretary, Senate Select Committee on the National Broadband Network.

Regional Submission & Appeal for the rollout of the National Broadband  
Network on the NSW Central Coast.

December 5, 2013

# Central Coast NBN appeal

**OUR APPEAL: Use the Central Coast as a Pilot Region for the complete roll out of fibre to the premise; providing a living cost-benefit analysis of the value of a pre-dominantly fibre optic broadband rollout.**

We base this appeal on four core reasons below:

1. **INVESTMENT & RESEARCH:** Businesses have started relocating to our fibre ready regions, organisations are investing in new service delivery methods in education and health, citizens too are starting to embrace working closer to home more often. The NBN investment is consistent with all regional economic development plans.
2. **CONSTRUCTION:** Local based construction teams have ramped up to a highly productive capacity.
3. **ECONOMIC DEVELOPMENT:** The region is counting on using the NBN infrastructure as a key economic driver to boost economic activity and regional for employment.
4. **POPULAR SUPPORT:** The NBN telecommunications investment has been well supported by the business and community sectors and is broadly supported as a key regional infrastructure investment.

## **Submission Objective:**

That the Federal Government adopts the Central Coast as a Pilot Region for the complete roll out of fibre to the premise and use it to study the cost-benefit analysis.

Dear Sir,

Please find attached a sincere and considered regional appeal to continue the rollout of the NBN on the NSW Central Coast. You will notice that this is a broadly supported and rational by employers, employees, young and old, Not for Profit sector. 110 considered submissions and 250 supporters.

With this constructive submission we appeal to the government on progressing the NBN rollout on the NSW Central Coast as planned. The region has many of it's economic and social aspirations riding on this hard fought for infrastructure investment.

The Central Coast of NSW is a region historically lumbered with economic and social distress. With no cornerstone industries of it's own it has traditionally been reliant on employment and investment from Sydney, the Hunter and the national purse to survive. Yet the region and it's resident's are resilient, innovative and hungry for success. The region has enormous potential.

**The NBN rollout started in the region 18 months ago and is well advanced in Gosford and advancing in Berkley Vale.**

The adoption of our new joint proposal would ensure the infrastructure needed to allow the region to reach it's potential.

In the last few years the Central Coast has started to emerge as a region with a direction and a positive identity. Thanks in no small part to the NBN rollout in the area. Some will point to successive governments investing in infrastructure. Some point to a community creating identity and building consensus. Others will point to the sporting field and the unlikely national and international success of the Central Coast Mariners as evidence of what can be done here.

Business and Not for Profit groups too have started to show what can be done. Innovative successes are gaining increasing frequency. Software, App & Cloud providers are blooming. So too are youth services, health innovators, educators and environmental engineers. Traditional industries in engineering, media, food & retail are evolving as much through a hungry necessity and desire to thrive.

We believe it would be more efficient to roll out the FTTP scheme in a planned and systematic way.

Employees too are pushing for changes to their commuting ways, with an increase in adoption of **telework** or other flexible work practices that return time, money and energy to their families and communities.

At the heart of all these changes is a digital evolution in the way things are being done and a recognition that the physical location of the past is less of a determinant than the ability to produce and deliver services quickly, creatively and with optimism.

The Digital evolution is in many ways made for regions like the Central Coast. Not hampered by old industries and increasingly blessed with creative and smart people this region is ripe for capturing and creating a first class digital economy.

Our constructive appeal in this brief document is a vision of the future of regional and outer metropolitan Australia. A future of less travel and reliance on other and more profit for all. **A future of less travel and reliance on others and benefits for all in the community.**

David Abrahams, December 2013.

Copy of online form used...

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2. CONSTRUCTION: Local based construction teams have ramped up to a highly productive capacity.
3. ECONOMIC DEVELOPMENT: The region is counting on using the NBN infrastructure as a key economic driver to boost economic activity and regional for employment.
4. POPULAR SUPPORT: The NBN telecommunications investment has been well supported by the business and community sectors and is broadly supported as a key regional infrastructure investment. ---

\*If you support this broad and constructive appeal please add your name and/or the name of your organisation below. Please feel free to add your specific constructive suggestions. This appeal is not party political, but will be used as a constructive regional submission to the review process.

\* Required

Name	Comments – (raw unedited submissions)
Robert Pedley	<p>As well as the 4 core reasons, the Central Coast area of Koolewong does not currently have any fixed line broadband so residents there are increasingly disadvantaged socially, economically and educationally by having to rely on expensive and unreliable mobile wireless broadband. Construction such as rodding and roping has already started there from October 2012 but final build instructions have not been issued.yet due to the Telstra asbestos delay and review delay.</p> <p>Please hurry up!</p>
Anthony Siviter	<p>I moved from England last year and had 50mb/s fibre broadband and it looks like I will never get that here!</p> <p>Australia needs to invest in its infrastructure to be a world player in the next decades.</p>
Meredith Emmanuel	<p>It's too expensive to live in large city centres for many of us today. However, it's not impossible to run successful small businesses from home and regional/rural areas - but only if we have reliable, high speed internet. I have been running a small PR business for the past 15 years - however, I cannot grow my business with the current internet speeds I receive.</p>
Robert Fitzgerald	<p>I own and operate a business that produces high quality, high definition video and film content for broadcast and the web. My business is based at Daleys Point and I currently only have internet access via ADSL to upload my finished "contribution quality" product to my clients via internet based contribution servers such as Dubsat (www.dubsat.com.au/).</p> <p>ADSL onl access places me at a considerable business disadvantage compared to my city and central metro competitors with high speed internet access. This will become even more of a disadvantage at my business location on the Central Coast as content creation is now moving to 4k resolution with 4 times the data payload of standard high definition video content.</p> <p>Three months ago the NBN rollout maps showed that I could expect high speed broadband in 3 years, they now show an indeterminate time frame. I am very disappointed as this gives me no certainty to plan for my business.</p>
Louise Lewis	<p>Please continue fibre to the home plans as this technology will assist us in many endeavours including education, medical needs and small business.</p>
peta colebatch	<p>Need to build for the long term future, and history has shown that faster speeds and greater capacity is required in this.</p>
Hal Colebatch	<p>The case for extending broadband to the Central Coast is well-made, and rests on the growing significance of the Central Coast as part of the Sydney economy. The initial work has been done, and the benefit gained from completing the project would far outweigh the financial gain from abandoning it. As a company located on the Central Coast and growing it is very frustrating at the costs and more importantly the lack of high speed internet. We now have clients accessing our servers on connections many times higher than we can provide. Our whole business is suffering as a result as we try to serve as much data as we can. We have investigated data centre locations, and it appears this is how we will proceed. It is exceptionally frustrating to know that if our West Gosford site (which should have been connected by now) was online, all our issues would have been solved and that we could provide real resilliance accross our sites via an MPLS network without the need and added cost of a data centre.</p>
Peter Miller	<p>I am appealing that the already planned infrastructure for the Central Coast is continued so that our planning can proceed as originally scoped.</p>
Jeff Sundstrom	<p>Lets not end up with a society divided by access to any services.</p>
Timothy Davis	<p>The NBN is essential.</p> <p>It is nosense to say we cannot afford it.</p> <p>We could not afford the Opera House, Sydney Harbour Bridge, The Snowy system, the Ord River Scheme, but we built them anyway.</p>
Bruce Kennedy	<p>Fast broadband is crucial to the long term outlook for Central Coast business, if we cannot get positive commitment to this we will be forced to relocate to where we can get it.</p>
Jacqui greaves	<p>NBN supporting regional job growth</p>
Michelle Meares	<p>Its a ridiculous situation here on the Coast now with some properties connected to the NBN and others not. Places like Terrigal and North Avoca are no longer on the list to be connected to the NBN when they were prior to the election. Parts of the Coast will be privileged to get the fibre to the premises, those who missed out are going to get a substandard service. They just need to get on and finish the job. Lots of people on the Coast work from home and need this.</p>
James Jarratt	<p>Our business depends on the internet and reliable telecommunications.</p>

- Ian Laing  
CCTS The current (except at high tide) service is frustrating and costly.  
20 previously unemployed young employees may lose their employment.
- Steven Hyde For a business located in Berkeley Vale, the quality of internet services where we are located is very poor (we have to rely on a slow wireless service that infrequently has problems). Seeing that the residential area of Berkeley Vale is now connected but the business area nearby is not but still is under construction (and presumably now on hold), makes it even more frustrating.
- ray rauscher This is a very important campaign for the Central Coast. Perhaps a public briefing, as was held earlier this year at the Leagues Club with NBN reps presenting.
- Bob Diaz I fully support the NBN
- Jennifer Kilp Please bring the NBN to Central Coast. It is necessary for so many reasons
- Rodney J Slater I believe that the composition of the new NBN board is very biased towards fiber to the node. We need balance.
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- Patrick Zuluaga I support the move to make the Central Coast a pilot region to demonstrate the value and cost benefit analysis of the NBN to businesses in the region.
- Providence Partners Being a firm of accountants, we are performing more and more work with the aid of the internet. We process a substantial amount of account keeping and processing for both internal and client purposes and the current broadband service struggles to keep up with the requirements of our firm and as such, brings reductions in productivity and efficiency.  
Thank you David agree our telco infrastructure is in a bad stage due to years of cost savings and the copper network has paid for itself and has not been upgraded for many years I have over 25 years experience in this area  
  
We are a central coast base but are working on Nbn Mdu work in Sydney because of the rates offered by tel 1 in this area.  
  
We had 25 staff. Now we employ around 4 because of the lack of work in this area for over 18 months until Nbn kick off. I know of 4 or company's on the coast that have to sub contract to the multi national company's and take big margins and nothing for guys at the end employing local and spending local and training young people on the coast .  
  
If you need help in this matter feel free to contact me  
  
Regards  
  
Guy Cowham
- Sandy Rogers Business in our region NEED this for our infrastructure & to develop our regional area  
Fast broadband is a basic business requirement. The current situation in the Erina CBD is stopping businesses expanding and wasting time and money.
- Brett Dillon
- Nick Baron Stop playing politics and just do it.  
This is a fantastic idea - happy to support it and take part in any studies etc to measure benefits for the region. I operate a web development business from my home studio at Kincumber - I work with companies overseas as well as Australia and local small/medium business who rely on the internet to do business. We are seeing greater take up of video based marketing calling for faster internet speeds. We need this in Australia to keep us competitive and to develop new online initiatives.  
As a business we are absolutely hurting by not having access to cost effective and fast Internet connections. We compete with similar businesses in the bigger cities who pay a fraction of our monthly Internet costs for 10 times more speed and capacity.
- Drago Brelj We are situated in the Erina Business belt along The Entrance Road - How ridiculous that the economic hub of our district is not yet on the NBN!  
  
We are completely dependant on our internet connections and employ approximately 62 people for goodness sake!

- Previous telecommunications minister Senator Conroy was engaged about the risk that Telstra could use the 'last-mile' of copper like a ransom-strip in land development. Telstra was handsomely compensated by the community for the right to access their conduits and pits in rolling-out the public fibre network. The community has therefore group-purchased the right to have fibre to the premises. I hope that the 'Commonwealth' (consider the meaning of that word) is not now seeking to use the last-mile infrastructure to extort money from prospective users who have already paid via taxes. The NBN is not just about video-on-demand and fast big-file domestic downloads. That is the froth on the beer. The real need is for government at all levels to crank-up service delivery/ productivity via , e-learning, e-health, e-planning and telepresence across the board. These can save a lot of travel, delay and lost opportunities. Retaining metallic links invites a host of problems/ government liabilities/ risks such as corrosion, short-circuits from water ingress, induced current, lightning-strike etc. Bearing in mind that the great majority of users live near the coast in wetter, maritime/ saline environments the prospects for faults is just horrendous. Climate change also demands more reliable communications and real-time monitoring of bushfires, storms, oceans and environmental changes. Business productivity and global competitiveness requires a full-fibre system. Cost-effective online retail and marketing opportunities available to global online retailers in Europe, Singapore, South Korea, India and the USA relative to what Australian businesses can offer as an online experience; of product 3-D imagery, demonstration/ how-to videos, ordering experience, monitoring shipment progress etc. is giving overseas manufacturers and suppliers a distinct competitive advantage. Aussie communities, government, tertiary education/ research sectors and businesses deserve, and for competitiveness will need, the best that government can afford with such a game-changing technology.
- Ken Phelan
- Michelle Allen
- Elizabeth Todd
- David Anderson
- Mike Glover
- Annette Joyce
- John Paterson
- Ilze Jaunberzins
- Ashley Good
- Stephen Jones
- Totally agree, the internet and mobile coverage on some parts of the Coast are terrible. It's time the Central Coast businesses are given a fair playing field to allow us to compete with the rest of the World and still live on the Coast. It's unfair that businesses should have to relocate just for better internet.
- The NBN is desperately needed. The current situation with Telstra exchanges in the Lake Munmorah region that are clogged and have no spare ports creates an almost impossible situation from both a business and personal perspective.
- The NBN is as critical to Australia's continued development as the major road and rail infrastructure was years ago.
- In an increasingly competitive world we cannot survive in the manufacturing industry and with our vast distances and small population we need excellent communications
- Companies are already gearing up for the next Olympics and expect the need for 40TB of storage for 8k television. This is now, not way in the future and good to excellent communications are the only chance for our children and grandchildren to find meaningful employment. China is graduating 1 million engineers yearly, where are we the clever country without NBN?
- Please as a matter of high need and high time this high priority basic need was realised for all citizens. Getting the NBN is a home business opportunity for me. In short, if I cannot get fibre to the home, I do not get the opportunity.
- I do not see this as just an opportunity for myself; it is also an indicator of how the NBN will change the business opportunities throughout Australia.
- I urge the continued rollout of NBN to all of regional Australia including the Central Coast
- Let us build the vision of the clever and productive country
- It seems such a shame that we should even be having this discussion at all after all the work that has already been done on the NBN, which has the potential to transform the Central Coast into a true growth region.
- As someone who moved up here from Sydney a few years ago to raise my young child in this gorgeous environment while also using my ambition and international experience to support local business and continue to work with international clients, it is difficult to fathom how anyone with a vested interest in regional business growth and opportunity could even contemplate disrupting the NBN rollout.
- There are many young families wanting to leave the urban jungle of Sydney and bring their vast wealth of experience, talent, resources and skills up here to start their own business. But to do that successfully requires a cracking infrastructure. Period. The NBN is therefore not an optional commodity but a non-negotiable necessity for the prosperous future of this region.
- Each day around 40,000 people stream out of the Central Coast, spending around 4 hours travelling. Car commuters alone emit around 200,000 tonnes of CO2 each year. The availability of the internet has

already stemmed the growth of this tide somewhat. However with the growth of the area those advances stand to be quickly overwhelmed. Faster communications is essential: to allow many tens of thousands of Central Coasties to balance life and work; to reduce our impact on the environment and especially lessen very avoidable carbon dioxide emissions; to enable young people priced out of the Sydney property market to have a viable future in the region. The future of work all around the world is distributed - from the home, from small hubs, between remote locations. The past, present and future of business is an exponentially increasing flow of data. For these reasons we need ultrafast broadband, not just to the box on the corner, but to the home. As someone concerned for building a better future (as many people are), as a Coastie and as the owner of a small biomedical business I support the call to roll out NBN fibre to all the premises of the Central Coast.

Stephen Jones

I support completion of current NSW Central Coast NBN contracts.

Elizabeth M  
LONG

I ask that multi unit dwellings and offices have the NBN connected to the already installed copper wires (with Vectoring if necessary) in order to minimise the building installation cost and avoid disfigurement of building fabric.

I ask that Central Coast areas beyond current contracts be given early communication upgrades by installation of NBN, if necessary using Node technology, including Vectoring under guarantee of equipment suppliers.

I added my name in support of the appeal last week without submitting a comment. Having heard Dave Abrahams speak so passionately, eloquently this evening, sharing his wealth of knowledge with those present at the Central Coast Leagues Club, I felt I should have my say.

Given the relatively advanced stage of the NBN rollout on the Central Coast, and the broad regional support for this rollout, I think it makes very good sense to complete rolling out fibre to the premises in our region.

Keith Pitty

In my own business of software development, this investment in "production quality broadband" would provide vast productivity benefits. I note that whilst my area of Kariong is under contract for the NBN, a colleague of mine who lives in Booker Bay, is in greater need of a fibre connection. During online video conferences via Skype his internet connection is too poor to allow him to share his screen. This inhibits our capability to effectively demonstrate progress of our projects to our clients. This is but one example of the need for production quality broadband.

There are obviously also huge potential benefits of production quality broadband in the fields of health care and education.

I think that investment in an FTTP NBN would be a wonderful enabler for Australian society for decades to come. A Central Coast pilot would provide the opportunity for the Federal Government to sensibly evaluate this claim.

Mark  
Andrews

The fibre to the node that the government is proposing will limit the upload speed to 4-6 Mbs. The fibre to the premises allowed users to have an upload speed of 40 Mbs.

The lower upload will limit development for the business sectors and for enterprising users of the net. It's a backward step and should not be contemplated.

Michael  
Grant

I work from home and require a reliable and fast internet connection. Download and upload speed are equally important.

Currently, my ADSL connection is slow and unreliable. Large uploads of data take an eternity and productivity is lost as a result.

Peter Van den  
Hooven

It would be fantastic to get something cutting edge, to kick off local development and create opportunities on the Coast.

Personally, I could eliminate my commute down the freeway if I had a reliable and fast internet at home (work from home instead).

Conrad Fuller

I support the rollout of FTTP to the entire Central Coast region. The benefits to our region are immense!

Warwick  
Montagu

I work in IT, and have done so since 1970. My employer allows me to work from home one day a week and having a fast and reliable internet is paramount to me being able to do this effectively. I live in Point Clare and this last week alone I have had internet drop-outs on at least 4 occasions (that I know of).



- Beverley Hay This infrastructure is essential for the Central Coast Development and future job prospects  
1) Give a tremendous boost to the local economy.  
2) Reduce the need for commuting to Sydney and Newcastle.
- Clinton Francis  
3) Generally reduce our need to travel on our already congested roads.  
4) Improve our business opportunities.  
5) Reduce our geographic isolation from Sydney and Newcastle.  
We live in Tascott and have no ADSL at all due to distance from the exchange. I run an international business from home and the slow internet affects me when doing conf calls and downloading large files
- Richard Walshe I believe the fibre has already been pulled through the street so "should" be easier to connect. I am also ok if NBN provide fibre-to-the-suburb/street and use the existing copper to deliver ADSL. Seems to me this would be a quicker way to mass deploy the NBN.....everyone already has the copper access in their house. I believe they should first deploy in the areas without any traditional ADSL service  
Working from home on current network (ADSL2+) during times is abysmal and it's better to drive to Sydney and work. FTTP and the faster speeds would enable WFH a lot more - improving the quality of family life.
- Graeme Jury A FTTP rollout is crucial to the future sustainability of telecommunications in Australia. A FTTN rollout will still use a copper network that is far too old. Australia is far behind most countries in the world with Internet and it's not good enough!  
I'm sick of modern governments not preparing for the future with solid infrastructure.
- Gavin Cornish The future needs us to invest in the NBN.  
They didn't build the Sydney Harbour Bridge for the 1930s, they built it for their future. We should follow in their methods.
- Phillip James Can't happen soon enough. My street cable is broken for internet use. Especially when raining.  
The NBN, from its first conception was deemed a profound necessity for the growth and viability of Australian business as a whole, let alone expanding our opportunities to an international platform.
- ken pieroz Now; it is an ABSOLUTE IMPERATIVE.  
With the NBN under the most virulent attack by the the Minister for Communications, Mr. M. Turnbull, driven by the imbecile who masquerades as the Head of the Australian Government; Australia runs the immediate risk, of total and long term irreparable damage of being cast back to the 16th century with its "jam tin and string" technology policies. "Taught String Technology" died long before the dinosaurs were even a feature in history.
- Catherine Turner The NBN represents, for a remote island economy as Australia is; one last final opportunity to not only recover its failing economy, but to be THE leading economic country in the entire OECD, bar none.  
Please!!! Can economic realism be reinstated back into the framework of current and future business economic planning for the sake of Australia's future.
- Bryan Nouwems NBN on the coast would benefit the coast dramatically, the bandwidth available on the coast is pathetic, for 10 years I have been struggling to get a decent connection so that when working from home my connection speeds are fast enough to support remotely.
- Ian Watts I have always considered that the original NBN approach didn't go far enough. It seems to me that if we were able to run copper to many residences outside the fifth footprint, then we should now be able to replace it with fibre. I don't believe the original Labor policy went far enough. Perhaps we could suggest that Turnbull correct this.
- Laraine Goodworth My address was shown as being included in the Gosford NBN rollout on the nbnc website sometime in 2012. Work began in my street about 12 months ago when workers pulled rope through the Telstra phone line conduit. Several months ago more workers came and work was done on the Telstra Pits in my Street. My address is no longer on the listing of places to have the NBN connected even though money has already been spent on the construction. WHAT A WASTE OF MONEY THIS IS!!!!
- John Lund As a large Region, the Central Coast is in desperate need for fast speed broadband, both download and

upload speeds, so that businesses can be established or retained on the Central Coast to help remove the necessity for 30 000+ people to travel to Sydney each day for employment.

Continuous expensive upgrades to transport infrastructure between the Central Coast and Sydney will have to be undertaken regularly, unless employment is created locally.

John Lund

Robert  
Silberman

My business requires NBN to the home/office in accordance with all the above criteria.

This is a copy of the letter I sent to Karen McNamara, some points may be useful in the appeal:

Dear Mrs McNamara

My name is Conrad xxxxxxxx. I live in Lisarow. Ours is a semi rural area on the fringe of suburbia, we are about 5 km from Ourimbah telephone exchange. I am an electronics engineer and passionate about a better solution to the appalling ADSL service we currently experience. I understand the Coalition broadband policy is to change the NBN implementation from a FTTP to a FTTN arrangement. I have several concerns regarding the coalitions Fibre to the Node approach, they are as follows:

1) The proposed change to 'node' installations will require a major redesign of the rollout. This will likely lead to a LATER date for my broadband installation not an earlier one as promised! FTTP rollout in my suburb was planned for December 2014, directly to the north and south of my suburb the FTTP rollout is already underway. I do not believe that FTTN in my street could be implemented sooner than December 2014.

2) The node cabinets are large and unsightly. They will attract graffiti and vandalism.

3) The nodes require a separate 240VAC power supply. Additional grid and associated works will be needed.

4) The nodes consume a significant amount of power.

5) The FTTN architecture is now an old technology, it even being replaced in some countries with FTTP.

6) The mere fact of having a cabinet of electronics in the circuit between the exchange and the premises lends itself to unreliability, it adds a point of failure. Power failures, electronic failure, lightning strikes, power surges, maintenance issues and vandalism all contribute to making this a weak point in the network. An 'inert' fibre cable running directly to the premises is not prone to any of this.

7) The existing copper aerial cables in my street are in truly appalling condition! These are the very cables that the node relies on to deliver to the home. Untrimmed plants and creepers dragging the cable towards the ground. Excess cable loops lying on the ground. Over tensioned and under tensioned cable spans. Strain relief wire broken. Exposed conductors. Poles leaning over at weird angles. Crackling lines. Barely audible phone calls. Junction box covers left open to the rain. Failure during periods of rain. Generally a total lack of care and maintenance by Telstra. How on earth is a node supposed to deliver any sort of quality signal through this rubbish!

As our elected member you are now in a position of great power and influence. I am asking you to please support the rollout of the NBN FTTP on the Central Coast as originally planned. This rollout is already well underway. Several areas around Gosford are already operational and others around Tuggerah Lake are only weeks away.

FTTP to all properties on the Central Coast would benefit us all. The benefits are many, the benefits are enormous! Here are just a few:

- 1) Give a tremendous boost to the local economy.
- 2) Reduce the need for commuting to Sydney and Newcastle.
- 3) Generally reduce our need to travel on our already congested roads.
- 4) Improve our standard of living.
- 5) Improve our quality of life.
- 6) Improve our business opportunities.
- 7) Reduce our geographic isolation from Sydney and Newcastle.
- 8) Improve our educational levels.
- 9) Improve our health.

Please support FTTP for the whole Central Coast!!

Thank you in anticipation

Conrad xxxxxxxx

Shelley Van den Hooven Macmasters Beach Surf Life Saving Club I'm at McMasters Beach ,2251, and we don't even get ADSL1,Its very sad considering we are an hour from Sydney CBD.  
We are a Voluntary Surf Lifesaving Club & we desperately need fast internet communication.At the moment we can't even get ADSL.

Geoff Hetherington As a business that is largely web based and which had to use microwave broadband for 2 of the last 3 years the move to ADSL (not 2 I might add!) has been a help but to really compete globally I need access to the speeds NBN promises.  
Please follow through and deliver this economically vital service.  
Australia NEEDS the NBN to stay in touch with the World and to employ our youth into the future. Not only The Central Coast, but Australia is in dire need of this fibre optic technology not only for it's employment opportunities but for prosperity. The benefits will far outweigh any costs. The Government needs to look to the future of our great country, our capable and creative youth and the World of business opportunity. We are being left behind NOW. We need to move swiftly and surely to the goal of the NBN. Enough of the politics, Get on and just do it. Australia and Australians deserve this, the best and only option. Copper is dead, like the Dinosaur it once was.

Steve George Please assist my home business, by giving us quicker more reliable internet  
On Hastings Road Terrigal the internet becomes unusable after a day of rain with the existing copper.

Murray Shaw What good will FTTN be in this area? Why not consider running the fibre overhead in areas which already have overhead wiring? It would reduce the cost and speed up the roll out.

Phil Pote The Central Coast need this, and much more besides, don't stop the NBN.

Bill Devanney Fibre to the premise is in my opinion critical to the growth of the Central Coast as a part of the 'clever country".

Ivan Martinus NBN roll out of fibre to the premise is vital to the development of the Central Coast.

Lauraine Martinus FOR THE REVITALIZING OF THE ENTIRE CENTRAL COAST REGION IT IS NECESSARY TO BE ALL INCLUSIVE AND REAP THE BENEFITS IN HEALTH, BUSINESS, LIGHT INDUSTRY, TOURISML, EDUCATION TO ENCOURAGE NEW DEVELOPMENT AND RESHAPE THE WAY WE LIVE. WHAT A WONDERFUL OPPORTUNITY TO HAVE SUCH AN IMPORTANT AREA AS A SHOW CASE IN THE EVENTUAL COVERING OF AUSTRALIA.

LYNN KELSEY

- Dennis Fox I live in the Central Coast near Erina. A large conduit place underground up to our local primary school by the State Govt several years ago to take a coaxial cable to the local primary school for their internet. It would be an easy task to run a fibre cable through this conduit.
- Pete Fry, CCGreens The fundamental difference between 'Fibre To The Premises' and 'Fibre To The Node' is that the greater upload speeds of the first version, the FTTP, can allow all sorts of small businesses and services, including people working from home, to operate at an effective commercial level, whereas the second version, the FTTN, is most suited simply to supplying higher quality pictures and other services to consumers of digital material.
- Iris Knight It seems to me that if the Central Coast is to have a future as part of the 'smart' economy it is vital that we make it possible for small businesses including home-based businesses to compete in a global market.
- John Knight Important to have NBN for better Health Services & Health Research and Community Health
- Phil Sandberg The NBN is required for better health Services and ongoing Health Research and Community Health.
- Eileen Gordon Owner of broadcast industry trade magazine- Content + Technology. Living in Surry Hills
- Gordon Urgently needed as we can't even get onto the net in our Village.
- Frank Long Please speed up the use of Vectoring so that Apartment buildings can be reticulated by using existing copper wires.
- Tom Wilson My suburb is ready [Kariiong] has been readied and the residents and local businesses want the roll out to be completed as originally planned FTTP
- Stephen Armstrong I am a TAFE teacher. We have been continually told that our funding will be reduced, Campuses and courses cut. We are required to deliver more and more in the workplace. Our online training material are often very resource hungry and our students often have difficulty utilising online training due to poor connections and slow download/upload load speeds
- Max Prince My unit in Gosford has fibre construction commenced, fibre covering area [the yellow / orange section of the gosford fibre serving area] I would like very much to be able to use the NBN. I skype to my son in Chicago and my friends in China I email lots in Rotary and I am secretary of the NSW retired Teachers assoc in Sydney. I need high speed internet. Please ensure the contract for my area 2Gos-1 is delivered. I need to contact & deal with retired teachers assoc in NSW Wagga Armidale etc.
- Mrs. PD Lemoine Individual - Businesses must have NBN Infrastructure consisting of complete roll out of fibre optic to the premises.
- Mrs. PD Lemoine For the future economic and development plans of the Central Coast Region the whole area must be completed. No haves and don't haves. NBN is the future of Australia for/in the competitive Global World.
- Stuart Adair The Central Coast region as the pilot region would showcase as a beacon of light for NSW & Australia we must have the best to succeed
- Stuart Adair I feel that the fibre to the Node option overlooks the present condition of the existing copper infrastructure in that the copper being replaced is possibly the best part of the existing system & the least reliable section (last mile) is remaining. For this option to be selected & high speeds to be maintained the ongoing maintenance cost will be far too high. Lets face it, copper was not designed for data transmission & will be a poor choice for long time viability.
- Heinz Muller The NBN is the boost that our under-developed area needs most urgently.
- D Williamson Interested in when Karen McIntyre (Dobell) is planning on responding to my enquiry as to when NBN is going to be delivered in Wamberal to allow me to plan whether or not to stay in the area or take my business to somewhere with better broadband connection.
- Sydney Fabri There is no doubt that a full fibre optic system is superior. I don't think anyone would dispute that. So any downward modifications were entertained for purely economic reasons. Yet at the end, a hybrid system is, at best, an interim system which will one day be upgraded to full fibre optic system, probably at greater cost.
- Sydney Fabri I have no doubt that there will be financial advantages to a region with full fibre optic connections. Equally other areas may be disadvantaged and add to the government costs in increased infrastructure transport costs as well as to the welfare cost due to reduced employment opportunities. And finally with unemployment comes social cost and ills that flow from that.
- Judith Barclay Thank you.
- Judith Barclay Why do the Liberals want to 'turn back time'? Are we going to live in olden days with lack of facilities and completely ignore the needs of modern businesses and voters??? Maybe next time we vote local dwellers will realise that their needs are being ignored!
- Terry Jones If we are to reduce the need for workers to commute to Sydney, the Central Coast is an ideal opportunity

to make it happen. Fast, reliable telecommunication can make it happen. The whole Central Coast needs a complete roll out of fibre to the premise.

I am writing as a small business owner and concerned resident of the Central Coast.

If the Coalition does not commit to rolling out fibre (NBN) to homes and small businesses along the Central Coast (Wamberal, Terrigal, Avoca, Copacabana, Killcare in particular), this will be a killer for small businesses in these locations. I've worked in the High Tech industry since 1988 so I do actually understand the implications of FTTN vs FTTP and the limitations the aging copper network impose on us small business owners. Most other countries are moving to a FTTP model. In fact, most countries that had previously installed FTTN are now replacing it with FTTP. The Coalition plan to stop the fibre rollout puts us at a competitive disadvantage, particularly on the Central Coast.

For example, in Killcare, they have almost no internet access. In Copacabana, it is not much better: as we are 21km from the nearest Exchange, we are getting barely 2mbps download speeds and 0.2mbps upload. The latter is the killer, because it makes such things as reliable video-conferencing impossible. The copper in Copacabana is very old, and is failing fast.

To put this issue in perspective: ADSL today is 100 times faster than Dial-up was 15 years ago. Yet, 90% of the data in the world today was created in the last two years alone. It is estimated that global online internet traffic will quadruple by 2015, the annual growth rate of global data generated per year being estimated by Cisco to be over 40%. ADSL is already failing, yet we have to continue to rely on copper for our internet connectivity. Just imagine how bad things are going to be in 10 years, or 5. NBN Co. were planning to offer 1 Gigabit wholesale broadband in December, but due to the limitations of copper, the FTTN rollout is expected to deliver less than 5% of that performance. Furthermore, copper is affected by environmental factors, whereas fibre is not.

Patrick  
Spedding

The Regional Economic Development and Employment Strategy document (REDES) developed in conjunction with the NSW Government, discusses the economic needs of the Central Coast, including the imperative for the region to be "Connected". This is not just about improvements to road, rail and air travel. In this Digital Century, we are now competing in a global economy, and it is imperative that the 22,000 small businesses on the Central Coast are competing on a level playing field. We need NBN to our premises if we are to survive.

In most other countries, such as the US, the importance of Fibre to the Premise is already realised. In fact, President Obama recently issued an Executive Order that fibre should be laid "whenever roads are dug" (the national "Dig Once" initiative). So, for example, the entire length of Avoca Drive has recently been dug by Gosford Council for extensive sewer works - Council could have collaborated with NBN Co. to run fiber at the same time, then it would be ready for NBN to be deployed to Avoca Beach.

Recent studies from Europe have shown FTTP to increase GDP, and reduce costs in delivering public services. Most such studies dismiss FTTN as not being a viable alternative. The longer Australia debates whether or not FTTP is even needed, the further we fall behind.

I hope this information will help you make a more informed, fact-based decision when it comes to deciding which strategy for the Central Coast you align with.

The Central Coast is a perfect example of a location that will benefit immensely from the NBN. As the owner of a software company, the internet enables me to live and work here. Without a fast and, above all, reliable connection, I would need to relocate my business to Sydney. As my business expands, it would be extremely advantageous to be able to host our own servers locally, something that an FTTP NBN would make possible. The relatively low upload speeds, not to mention the potentially lower reliability of an FTTN NBN based on the existing copper network, mean I will continue to have to outsource these services to a Sydney-based company rather than employing staff locally. We have heard all about how an FTTN NBN will save (theoretically) on construction costs, but I feel more research is required to determine what sort of economic benefits to local areas, such as in my own circumstances mentioned above, will be lost as a result and thus whether the saving is really worth it.

Rod Boyd

Kate da Costa I am concerned that the opposition to FTTP is based mainly on the fact that it was proposed by the previous government. Infrastructure projects of this magnitude should not be part of political skirmishes.

- If there are inefficiencies in the roll-out, address those, but do not deny residents and businesses the opportunity to be part of the 21st century because of ideology. The Central Coast needs the ability to create more local jobs and FTTP will better allow this. Large business can afford the cost of connecting from the node, but small business - where most Australians are employed - cannot.
- Rob Lee I am increasingly using my home internet connection to perform many work related tasks and would benefit greatly from a fast, reliable connection.  
Hello,
- I am a director of a small company and live in Berkeley Vale on the Central Coast. I work from home mostly with an office in North Sydney.
- Our company is just starting to break into the US market, we have set up offices & a formed legal entity there, and have picked up a supply contract. We also have offices in the UK.
- I deal with large artwork files for my work (we are in specialist printing and design). The NBN is exactly what I need to grow our business. Low bandwidth is a serious obstacle to businesses such as ours.
- Trevor Buchanan Currently I have low quality internet and phone services and patchy mobile phone reception. It makes working very difficult. I have weekly phone conference calls overseas, all parties regularly complain about the static and audio quality of my line to the point where I cannot use it, and the calls are often 9:00pm or 11:00pm at night.
- The FTTN, a vastly inferior solution that still relies on the same copper that is causing me the current issues, has not been properly costed in terms of maintenance costs, running costs, and power costs. It delivers a fraction of the bandwidth at a similar cost, once the running costs are included, and it cannot be cost effectively upgraded to FTTP. FTTP will see gigabyte speeds with a relatively easy upgrade path.
- As a businessperson, scarcely have I come across such a black and white issue as this - we need FTTP to develop small business and regional business.  
NBN is no doubt extremely beneficial to all of Australia and in ways we cant even imagine yet.
- Ashley De Souza The Central Coast in particular will benefit hugely in regards to employment, education and the local economy.  
Support the Central Coast!  
My husband and I run our software businss (Treehouse Software) from our home in Point Clare on the Central coast. We have been patiently awaiting the NBN to help to alleviate us with our productivity and communication issues we currently experience from our internet connection.
- Karen Askins In your considerations of the cost/benefit of the NBN for the region, take into consideration the reduced cost on families of having to commute to Sydney as a result of a more efficient link to the CBD.
- I represent the Central Coast Community Union Alliance.
- We feel that on the grounds of Investment & Research, Construction that has already commenced, Economic Development and the Broader general community support that there is a real need for the NBN roll out to be completed as originally proposed on the NSW Central Coast.
- A predominantly FTTP system was the plan that gained approval for our region. I refer to our group submission for further information. The document is attached.
- Jeff Sundstrom " The Central Coast  
Community Union Alliance  
Submission to the Federal Government  
60 Day NBN Strategic Review
- The Central Coast - Full Roll Out NBN

“A Pilot Scheme”

A Cost Benefit Analysis  
in the interest of the Nation."

Fibre optic broadband to the premise would help business to provide much local employment and therefore there would be far less impact on infrastructure. If the thousands of people who travel to Sydney daily, either on the trains or by car could work locally, it would be of great benefit for the society both socially and financially.

Margaret  
Lund

Fibre optic broadband to the premise would also be of great benefit to the medical system. information, consultations and research would surely save the country a great deal of money. Similarly much money could be saved in the educational world. Students would not have to travel so much and they could benefit from access to many places of learning across the world as well as facilitate their research.

John  
McFarlane

In all these cases uploading is as important as downloading.

Fibre to the node is an inefficient allocation of resources as it is very likely the system will need to be upgraded to FTTP in a relatively short period of time to utilise the technology that will be available in the future .

I am concerned that the changes to the planned NBN rollout of FTTN will greatly disadvantage people living in retirement villages. I will give my village as an example. I live north of Gosford. Our village comprises just over 500 dwellings on 100 acres of private land. This means that the Turnbull new system the green box bringing fibre to the village will stop at our gate and the residents will be left with copper wiring that will only get older, weaker and more inefficient within a few years particularly those living a long way from the entrance

Elizabeth  
Cayzer

Another anomaly to take into consideration is that the Gosford area has the fibre to the home system already installed (it actually reaches half way along Maidens Brush road), while the Erina area within 10 Km will be forced to accept Turnbull inferior system. This kind of inefficient arrangement (probably duplicated without the country) in addition to the problem of retirement villages facing very poor linkup must surely make it important to giving consideration to returning to the original NBN rollout

Yours Sincerely  
Elizabeth Cayzer  
Nov 21 2013

Barry Holmes Looking for faster access to broadband.

Mr/Mrs Van  
den Heuvel

Glad that NBN is here as working via them means quicker connections.

We wish to add our appeal for a complete roll out of FTTP on the Central Coast to encourage more businesses to expand or relocate to our area. The fastest possible broadband speeds with present technology, will:

- \* Encourage further growth in satellite townships which will lead to more jobs for the local population;
- \*Result in a lesser need for commuting to Sydney which will ease the strain on the already over-stressed M1 and rail facilities:

J and P Da  
Costa

In Gosford the FTTP has already shown that it can provide:

- \* Faster uploads and downloads,
- \*A longer life span.
- \*Less maintenance costs, and
- \*I better equipped to handle future demands with technical superiority.

From an environmental point of view our streets are already unsightly with above ground electricity reticulation, a plethora of street signs, and the last thing the Central Coast needs is more obtrusive boxes cluttering up our streets.

We live in a community of over 600 people on private property which is spread over 100 acres. With a box located on the street outside, those of us further away from the street will have weaker and weaker signals to our premises through our aging telstra Copper Wiring

- Peter Carstairs NBN is important for/too the provision of health services because of its face to face facility between medical professionals & between medical professionals and clients/patients. Cheaper housing attracts people to this area - particularly younger new home buyers essential to this older population. Thus this seems a likely area to take on as a pilot scheme for the NBN roll out given the existing facilities already available. University and TAFE students as well as primary & secondary students could then compete fairly with others already having these opportunities. Fibre optic broadband roll out is the world's best practice and is already installed in many other countries with which Australia does business. Much of the infrastructure is here in this area - lets make use of it.
- John & Margaret Hale 3 years ago my partner and I bought a house in Tascott. Unfortunately we were unaware that we are unable to get broadband at our address. We are too far from the exchange to get adsl and have no 3g coverage. When NBNco told us that we were due to be connected in November 2013 I enrolled to study at Open Universities online. Unfortunately, 3 weeks before my first unit was due to commence our house was removed from the rollout map. The central coast is only one hour from Sydney. I shouldn't have to wait until I arrive at work in Sydney to connect to world via the internet!
- Gabrielle Bowers
- Marie-Laure Bouchet Using a location such as the Central Coast would be an effective method of running a test-case of how the NBN could change for the better the nature of work and enable the education, leisure and health industries to deliver effective and user-focused services.
- Wayne Quennelle Lets not throughout a good idea just to save face.
- Dr Michael Howard I was told by a real estate agent that a big subdevelopment in Terrigal was to be marketed as oriented to home office work based on the NBN. In general, this region badly needs more local employment and an NBN pilot would be a contribution to that.
- Edgar Adams Dr Michael Howard, Lecturer in Public Policy, University of Newcastle, Ourimbah 2258. It is recognised worldwide that towns and cities with very fast fibre-optic internet services are seeing their economies grow substantially. The Central Coast economy is in serious decline with low GDP, declining business employment high unemployment, declining business numbers. We are now seeing rising numbers of commuters with the latest figures being around 40,000. This is causing massive long term social consequences.
- Ian Elliott The Central Coast as a region needs to be connected to the National Broadband Network as originally envisaged (Fttp) thereby providing opportunities for commuters to Telework at least part time and to attract employment generating investment. On the Central Coast at least the copper network has not been well maintained for over 15 years consequently Fttm is not a viable option  
Totally agree with rationale behind this appeal. The Central Coast is ideally placed to be a pilot region to ensure the NBN maximises potential.



The 259\* that put their name to the submission – (note 110 wrote considered positions)

- As of December 4, 2013.
- Other organisations ie. Gosford Council, Central Coast Business Review & Central Coast Community Union Alliance will send in their own submission that supports our joint appeal.

<b>Name</b>	<b>Email</b>
Brooke Simmons	
Robert Pedley	
Anthony Siviter	
Leah Fotofili	
Mark Schweiger	
Meredith	
Emmanuel	
Wanda Guyenette	
Julie Cooney	
Sasha Butler	
Stuart Butler	
angela green	
Alessia Richards	
Robert Fitzgerald	
David Smith	
Emanuel Spinola	
Bruce Eickelman	
Louise Lewis	
Kevin Bryan	
peta colebatch	
Hal Colebatch	
Peter Miller	
Andrew Dargan	
Jeff Sundstrom	
Rees	
Dave Arthur	
Timothy Davis	
Paul Bolton	
Bruce Kennedy	
Paul Quinn	
Nigel Neubauer	
Jacqui greaves	
Michelle Meares	
James Jarratt	
Sarah Hogg	
Ian Laing CCTS	
Sharp DS Central Coast	
Sonia	

Bruce Gould
Keith Pitty
Hillary Morris
Erica Harker
Petrina March
Daniel Harker
Steven Hyde
Phaedra Pym
Chas Young
Graham Mann
ray rauscher
Darrell Pannowitz
Mike Goodman
Steve Skipper
Murray Allibone
Shane Stone
Bob Diaz
Jennifer Kilp
Rodney J Slater
Rodney J Slater
Ian Watts
Patrick Zuluaga
Kaylene Blunt
Mr John Carney
Nick Chettle
Michael Seton
Providence
Partners
Guy Cowham
Sandy Rogers
Julie Goodman -
Koala Publishing
Lyn
Craig Ayling
Katy Gregory
Peter Franke
Brett Dillon
Nick Baron
Amanda Tarlau
Drago Brelih
Lesley
Paul Budde
Lesley
Ken Phelan
Michelle Allen
Matthew Lusted

Elizabeth Todd
David Anderson
Livio La Greca
Graeme Johnston
David Henderson
Mike Glover
Annette Joyce
Neil Patulny
Yvonne Lamont
Scott Snodgrass
Bruce Gingell
John Paterson
Lesley Skipper
Ilze Jaunberzins
Heather Tumeth
Peter Rogers
Anthony Grieve
Ashley Good
Malcolm Hill
Stephen Jones
Elizabeth M LONG
Keith Pitty
Mark Kentwell
Matthew Booth
Mark Andrews
Michael Grant
Evan Solomon
Peter Groom
Peter Van den Hooven
Conrad Fuller
Warwick Montagu
Beverley Hay
Clinton Francis
Richard Walshe
Andrew Wright
Graeme Jury
Clint Turner
Dan Harker
Andrew wright
Peter Prior
Merrillie Redden
Antony Sackman
Jasmin
Gavin Cornish

Phillip James
ken pieroz
Alice McTyer
Catherine Turner
Bryan Nouwems
Brian Seckold
Juergen Busam
Ossian Newman
Ben Stapylton
Daniel Perry
Paul Mereniuk
Rhys Evans
Michelle Horsman
Ian Watts
Ken Goodworth
Laraine
Goodworth
John Lund
Robert Silberman
Jeremy Robertson
Conrad
Shelley Van den
Hooven
Macmasters Beach
Surf Life Saving
Club
Warwick Montagu
Hans Gotfredsen
Carol Gotfredsen
Geoff
Hetherington
Steve George
Sally Turbitt
Murray Shaw
Phil Pote
Bill Devanney
Ivan Martinus
Lauraine Martinus
LYNN KELSEY
Peter Chessell
Dennis Fox
John Eager
Pete Fry,
CCGreens
Carol Gotfredsen
Hans Gotfredsen

Beverly Hay
Kevin Obrien
Eileen Gordon
barbara Blades
Stuart Adair
Robina Sinclair
Max Prince
John Lund
margaret Lund
Eric Ahlstrom
Ian Watts
Ruth Herman
Flemming
Haastrup
Marie Haastrup
Lee Pawpal
Katy Gregory
Ian Wardale
Mark Curry
Iris Knight
John Knight
gerry Phelan
Pomare Autuatagi
Andrew Treble
Greg Fleming
Tom Wilson
Gordon Ricketts
Phil Sandberg
patrick Kearney
Iris Knight
John Knight
Phil Sandberg
Eileen Gordon
patrick speeding
Frank Long
Tom Wilson
Stephen
Armstrong
Max Prince
Mrs. PD Lemoine
Stuart Adair
Heinz Muller
D Williamson
Sydney Fabri
wayne mead
Ian McKinnon

Judith Barclay
Terry Jones
Jan Anderson
Abigail Boyd
Patrick Spedding
Rod Boyd
James Waugh
M.J.O.Greenwood
Tony Newman
Robina Sinclair
Ian Blain
Meg Wallace
audrey hadley
Kate da Costa
Rob Lee
Trevor Buchanan
Ashley De Souza
Barry Dawson
Gail Dawson
Barry Dawson
Jan Anderson
Ivan Widjaja
Carl Baker
Karen Askins
Margaret Lund
Craig Black
Blake Turnbull
John McFarlane
Gerry Phelan
Jane Allen
Elizabeth Cayzer
Mrs G O'Hara
Barry Holmes
Mr/Mrs Van den Heuvel
J and P Da Costa
Sandra Sturgess
Peter Carstairs
John & Margaret Hale
Gabrielle Bowers
Marie-Laure Bouchet
Daniel Hall
Wayne Quennelle
H. Stamm

Dr Michael Howard
David Crocker Edgar Adams
Ian Elliott
Jeff Sundstrom
Sari Busam