

que tu penses que la communication électronique soit une bonne chose ou pas, de toute façon elle existe.

Les gens ils dépensent beaucoup d'argent la dedans, parfois plus que pour la bouffe. et ils sont de plus en plus obsédés par ça. Nous le sommes tous! Regardes autours de toi!

C'est aussi pour les gouvernements et industries un des principaux outils de contrôle et de régulation

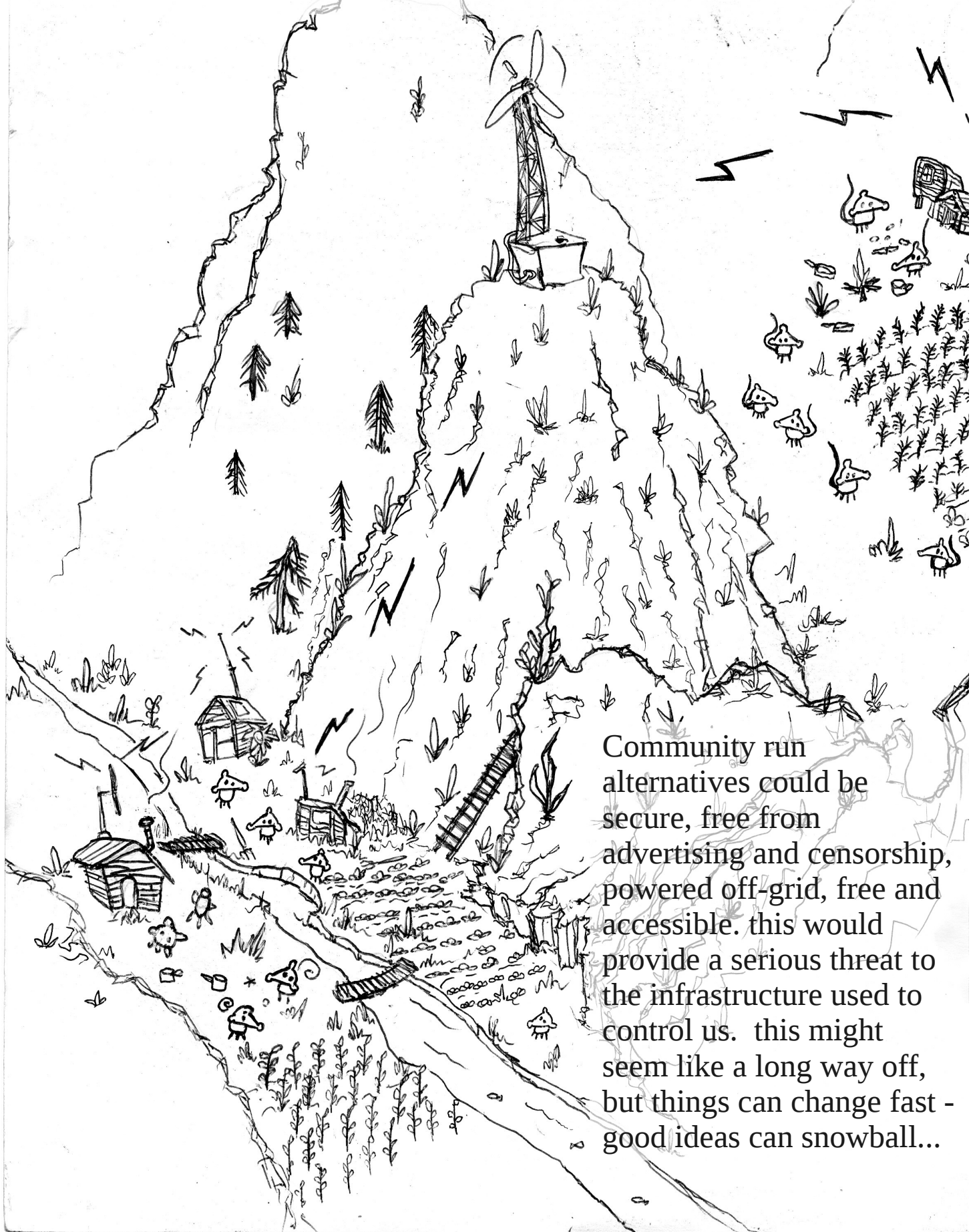
whether you think electronic communication is a good thing or not, its there.

people are spending a lot of money on it, sometimes more than they do on food. and they're getting more and more obsessed with it. we all are! just look around you!


it is also a major tool of control and regulation by government and industry. the more we rely on it the more we submit ourselves to them.



des alternatives communes pourraient etre secure, sans pubs ni censure, alimentees par d'autres sources d'energies, gratuites et accessibles. les infrastructures habituees a nous contrôler y verraient une serieuse menace. ça peut paraître irrealiste, mais les choses pouvant vite changer, et les bonnes idees faire boule de neige....



Community run alternatives could be secure, free from advertising and censorship, powered off-grid, free and accessible. this would provide a serious threat to the infrastructure used to control us. this might seem like a long way off, but things can change fast - good ideas can snowball...



Tu penses que on peut changer ça pour être mieux?
Autant tout bruler! pourquoi on aurait besoin de ces
trucs?

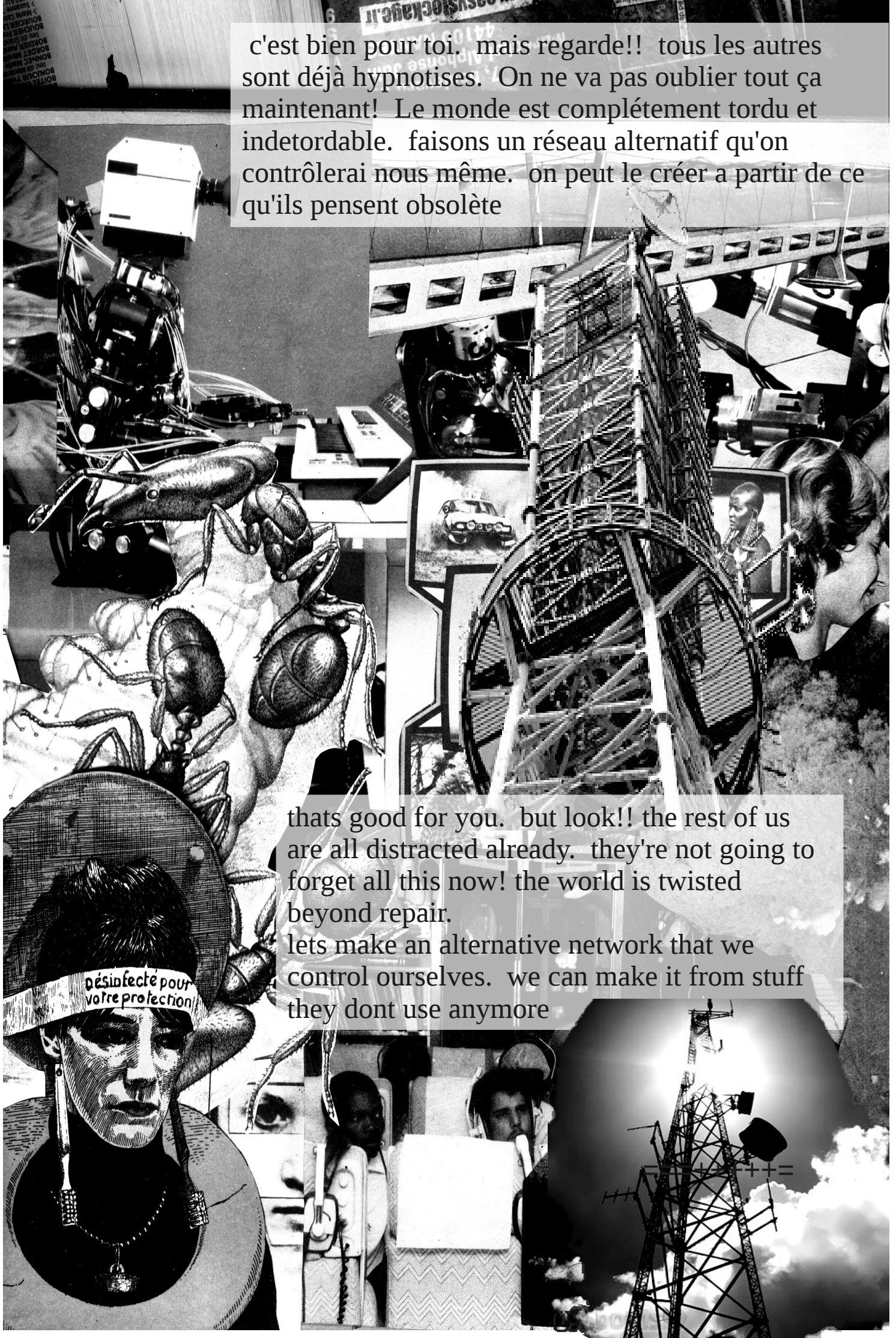
a vouloir tout planifier, on passe acote de la chance et
de la magie. je trouve les gens que je veux recontrer
sur les chemins que je prends. Et quand je suis
distract par ces machins je ne regarde plus ou je vais.

You think we can change it for
the better? lets burn it! why do
we need this stuff?
arrangements are better left to
chance and magic. i find the
people i want to meet on the path
that i take - and when im
distracted by these machines i
dont look where im going

c'est bien pour toi. mais regarde!! tous les autres sont déjà hypnotisés. On ne va pas oublier tout ça maintenant! Le monde est complètement tordu et indetordable. faisons un réseau alternatif qu'on contrôlerai nous même. on peut le créer a partir de ce qu'ils pensent obsolète

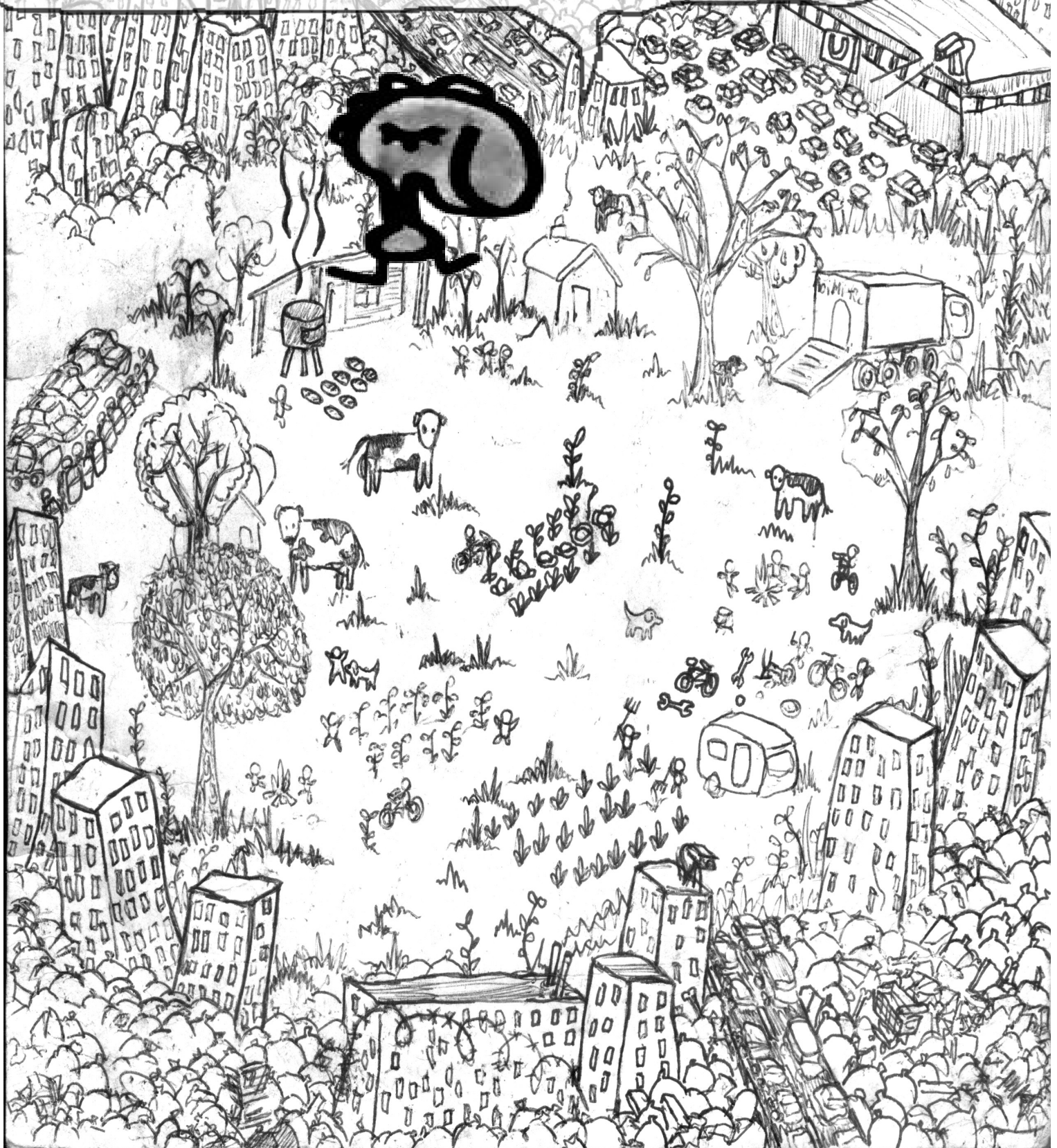
thats good for you. but look!! the rest of us are all distracted already. they're not going to forget all this now! the world is twisted beyond repair.


lets make an alternative network that we control ourselves. we can make it from stuff they dont use anymore



c'est juste de temps perdu! oublies ça! On a juste besoin d'être dehors, besoin des plantes et de la boue. Oublie ça, et les autres suivront... tôt ou tard. ça ne peut pas durer ainsi indéfiniment.

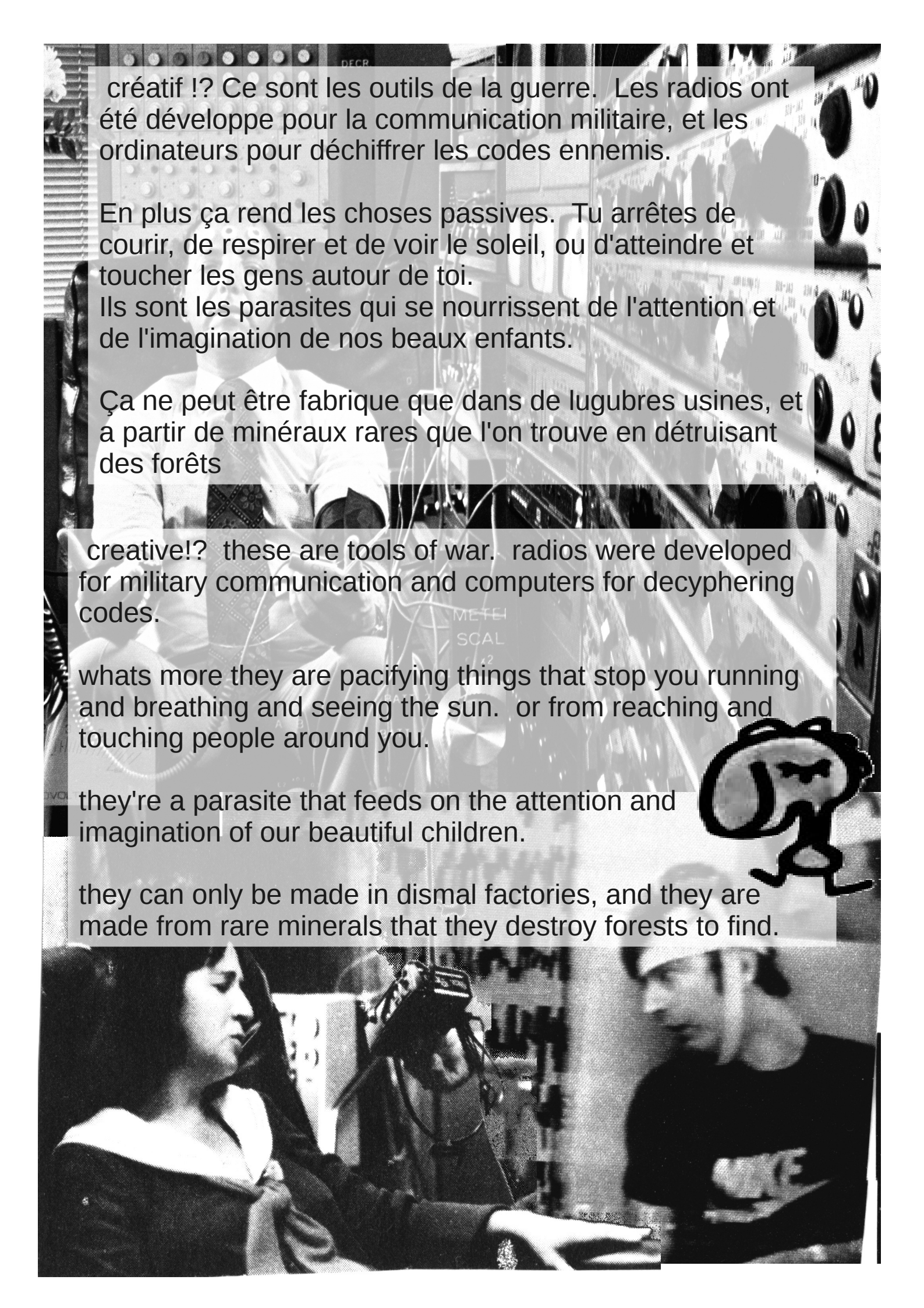
its a waste of time! walk away from it. what we need is plants and mud and to be outdoors. walk away and others will follow... sooner or later. they cant live like that forever.





peut-être que je ne VEUX pas oublier. de tout façon je peux pas, c'est trop tard. j'ai grandi avec ça. j'ai été expose a ces signaux depuis que je suis bébé et maintenant ça fait partie de moi.... mon seul moyen d'échapper au contrôle et a la surveillance c'est de récupérer ces signaux et d'en faire quelque chose de créatif

maybe i dont WANT to walk away. anyway i cant. its too late. i grew up with this... i was exposed to these signals as a baby and now its ingrained in me. my only way to escape control and survailance is to pick up these signals and do something creative with them.



créatif !? Ce sont les outils de la guerre. Les radios ont été développées pour la communication militaire, et les ordinateurs pour déchiffrer les codes ennemis.

En plus ça rend les choses passives. Tu arrêtes de courir, de respirer et de voir le soleil, ou d'atteindre et toucher les gens autour de toi. Ils sont les parasites qui se nourrissent de l'attention et de l'imagination de nos beaux enfants.

Ça ne peut être fabriqué que dans de lugubres usines, et à partir de minéraux rares que l'on trouve en détruisant des forêts

creative!? these are tools of war. radios were developed for military communication and computers for decyphering codes.

whats more they are pacifying things that stop you running and breathing and seeing the sun. or from reaching and touching people around you.

they're a parasite that feeds on the attention and imagination of our beautiful children.

they can only be made in dismal factories, and they are made from rare minerals that they destroy forests to find.

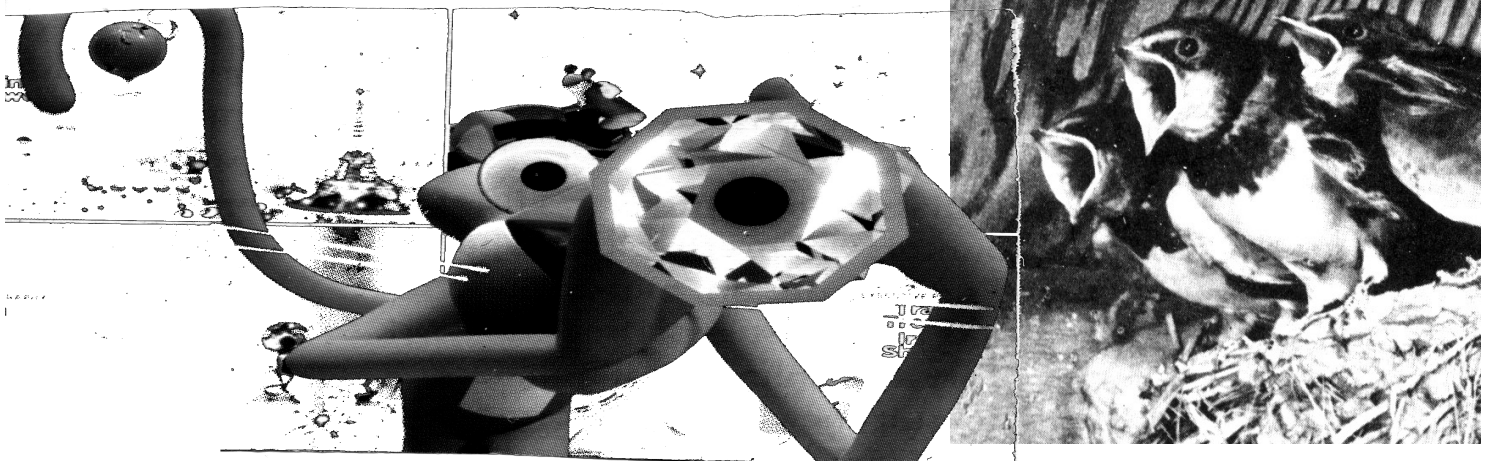


Mais on peut faire un réseau différent, notre propre réseaux. Et ça ne sera pas une sorte d'alternative secrete pour ceux qui sont dans la confiance. Ça sera ouvert et libre et pour tous. Facile à mettre en place et en utilisant de materiel récupéré.

On va petit à petit leur couper l'herbe sous le pied. Ce réseau commencera petit et fera boule de neige.



But we can make a different network, our own network. And this will not be some sort of secret alternative for 'those in the know' -it will be open free and for everyone. simple to set up and using recouperated material. we're gonna gradually pull the rug from under thier feet. this network will start small and then snowball

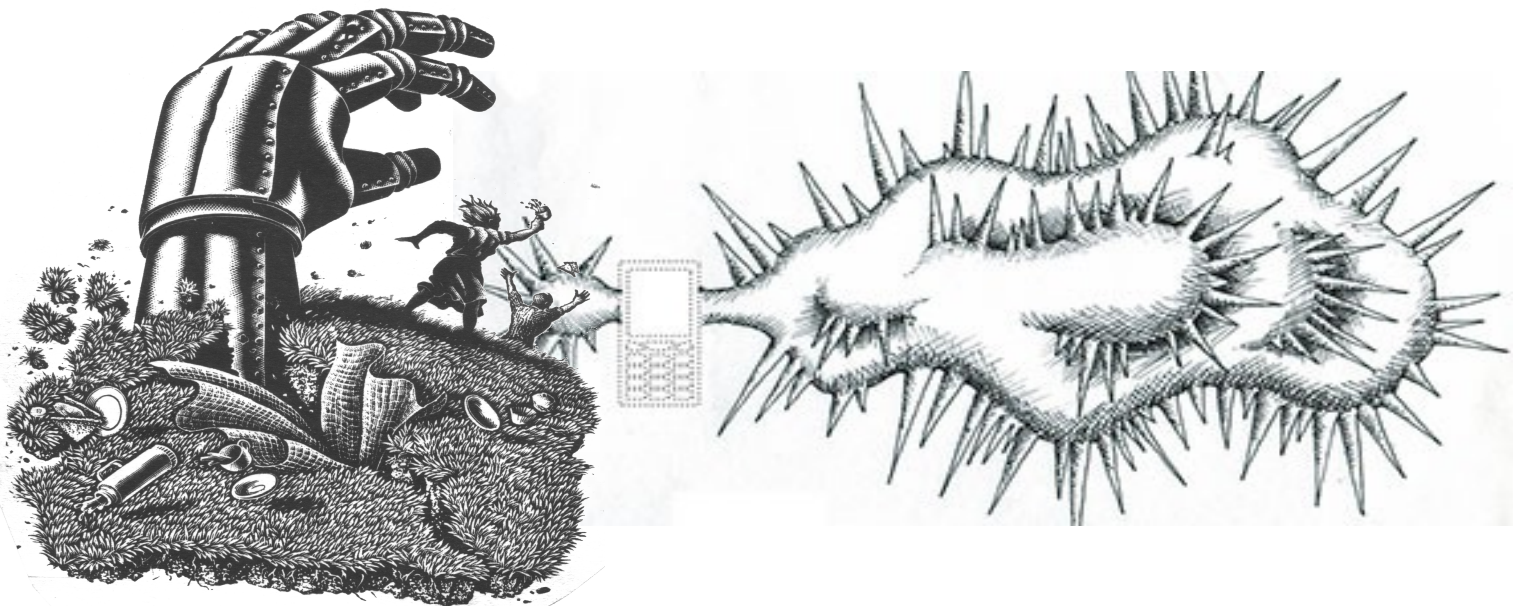


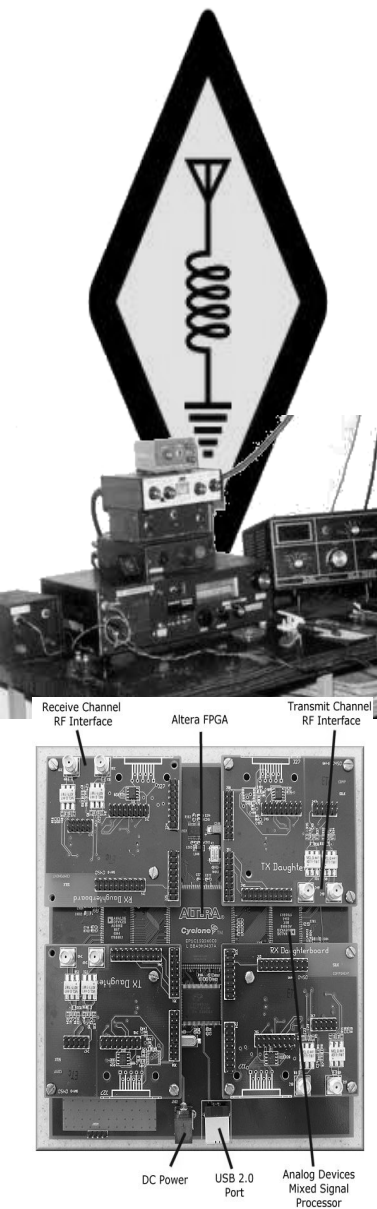
Gradually, the internet, which once seemed like a relatively free and user-controlled system – at least compared with totally centralised TV/radio broadcasting, becomes a controlled commercial space where no-one trusts anyone and we are constantly under the eyes of authorities and businesses - much like our city centres.

Par exemple, en février 2012 le site sans-profit 'scroogle' qui offrait une version alternatif de google (ou les recherches n'étaient pas enregistrées) était suspendu suite à une action de google. Puis en mars 2012 google instaure leur nouveau règlement de vie privée, rendant les recherches des utilisateurs accessibles aux autres sites possédés par google.

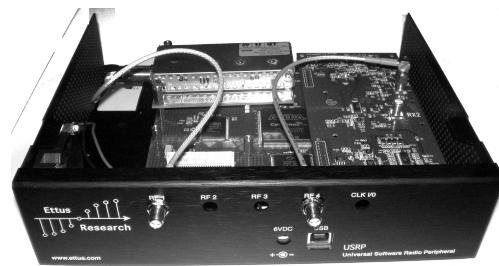
For example, in february 2012 the non-profit website 'scroogle' which offered an alternative version of google (where searches were not recorded) was taken down after action against it taken by google. Then in march 2012 google put into practice their new privacy policy, making users search history available to other google owned sites.

In order for a community run network to become popular, we need some universal standards, and a way for different networks to link together. A small site might use high frequencies to get high bandwidth communication locally, but how can we connect that communication with lower frequency, longer range links to other communities ? If we are going to set up some sort of repeaters or base stations to link groups, they need to be useful to everyone, and not dependent on other parts of the network. Some repeaters might be installed in vehicles or boats that move around. Or they might be dependent on wind or sun for power – so they cannot be always relied upon.



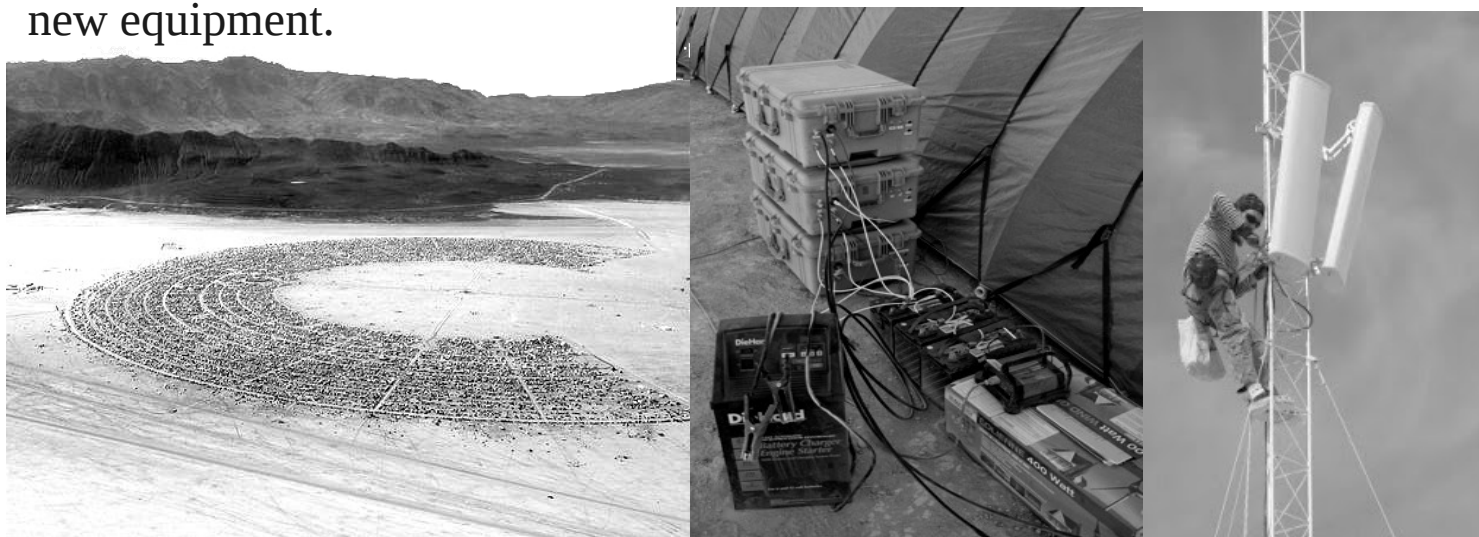


Community run 'amateur' radio communication has existed for over a hundred years. It is both a local and an international network and has often been relied upon when other communications have broken down because of disasters such as floods. Data modulation systems such as psk31 can allow text services similar to email or sms, which can operate over thousands of miles on HF. Using the amateur bands requires a licence and an official 'callsign', which are relatively cheap and easy to get, but there are restrictions which may cause a problem. For example sending encrypted messages is forbidden, and the licensing association stores personal details of its users and will cooperate with governments. Of course we could use similar systems illegally, but as an existing network it has the advantage of having established and well documented international standards, as well as infrastructure such as repeater stations.



Software Defined Radio devices, such as the Universal Software Radio Peripheral (USRP), produced in the US by « Ettus research », could be very useful in establishing a community run network. They are computer controlled radios, where various aspects of the radio's operation which traditionally were done by analogue hardware devices, in particular the modulation and demodulation of the RF signal, are done digitally by software. This has only recently become possible because with high radio frequencies high sampling rates are required and computers need to be fast to demodulate them. The advantage is that software defined radio devices are flexible, adaptable and easy to modify. For example by changing the software that the USRP is running, it could act as a FM transmitter, GPS receiver, digital TV decoder, VHF transceiver, whatever... Of course some hardware changes (such as antennas and the USRPs 'daughter board' circuits) are required, but essentially it is software which defines the USRPs operation. There are many commercially available software defined radio devices, but the USRPs is particularly interesting because its circuit design is published openly and the software it runs, GNUradio, is open source.

Making devices more flexible by increasing the extent to which they are controlled by software is good because when the device is no longer needed it can be used for something else instead of being thrown away. The arduino, a multi-perpose programmable device, is a good example of this. Software defined radio is likely to gain popularity in the coming years, which is interesting because it is easy to modify for different perposes. So we could modify commercial devices to work with our own set of standards – and if we change those standards at some point we will not need to get new equipment.



The USRP has been used in projects to decode GSM mobile phone signals as well as high definition TV signals. It is also used in a project to create easy to build GSM base stations, ([OpenBTS](#)) which can be battery powered. A free mobile network using the USRP running OpenBTS (with some RF amplifiers) and powered by wind has been set up at [Burning man festival](#) for several years (But they got an official lisenche).

Of course if an unlisenced GSM network was to get popular, we would be likely to have problems with the authorities very quickly. But the advantage is that individual users need only a mobile phone – and thousands of them are being thrown away... Similarly we could use 2.4GHz (wifi) amplifiers to create computer networks or share internet connections over wide areas – and like this individual computer users do not need to get anything new.

A standard for WRAN (wireless regional area networks), IEEE 802.22 has recently been developed, which will use VHF and UHF bands, previously used by TV broadcasting. The standard is likely to be used by commercial internet service providers to cover rural areas - internet base stations could operate over a 60km radius, like TV transmitters. It is the first international standard to use 'cognitive radio' to eliminate interference with existing TV signals. This makes it likely that transmission equipment will be software defined - which means it could be reprogrammed for use by us.

There seems to be a number of reasons why Software defined radio could be useful for community run communication systems. It could allow us to create something genuinely independent of existing commercially provided systems, whilst being able to re-use redundant hardware from these systems. Changes can be made to the standards of how the system works without requiring any new hardware – saving resources. Frequencies can be dynamically allocated, allowing different types of hardware to work together and interference with other systems to be avoided automatically. Software is easier to work on collectively than hardware.

Decentralised community run systems will encourage people locally to interact, as information spreads geographically. If you are searching for something or announcing that you have something to offer, it will be naturally easier to find responses nearby. Compared to the internet, it will be more chaotic, but in a beautiful self-organising way. Text/images/music/whatever will spread geographically and be able to discover the same stuff as others nearby but it will change all the time as ideas/art spread between groups like a rumour. Like they have a life of their own.

ehion.com/~ameba Here we can discuss ideas on how we can set up a community run network like this.

But aren't you gonna spend forever setting all this stuff up while your plants need weeding and watering and you ignore the people around you...

