

A proposal for a cheap wireless system

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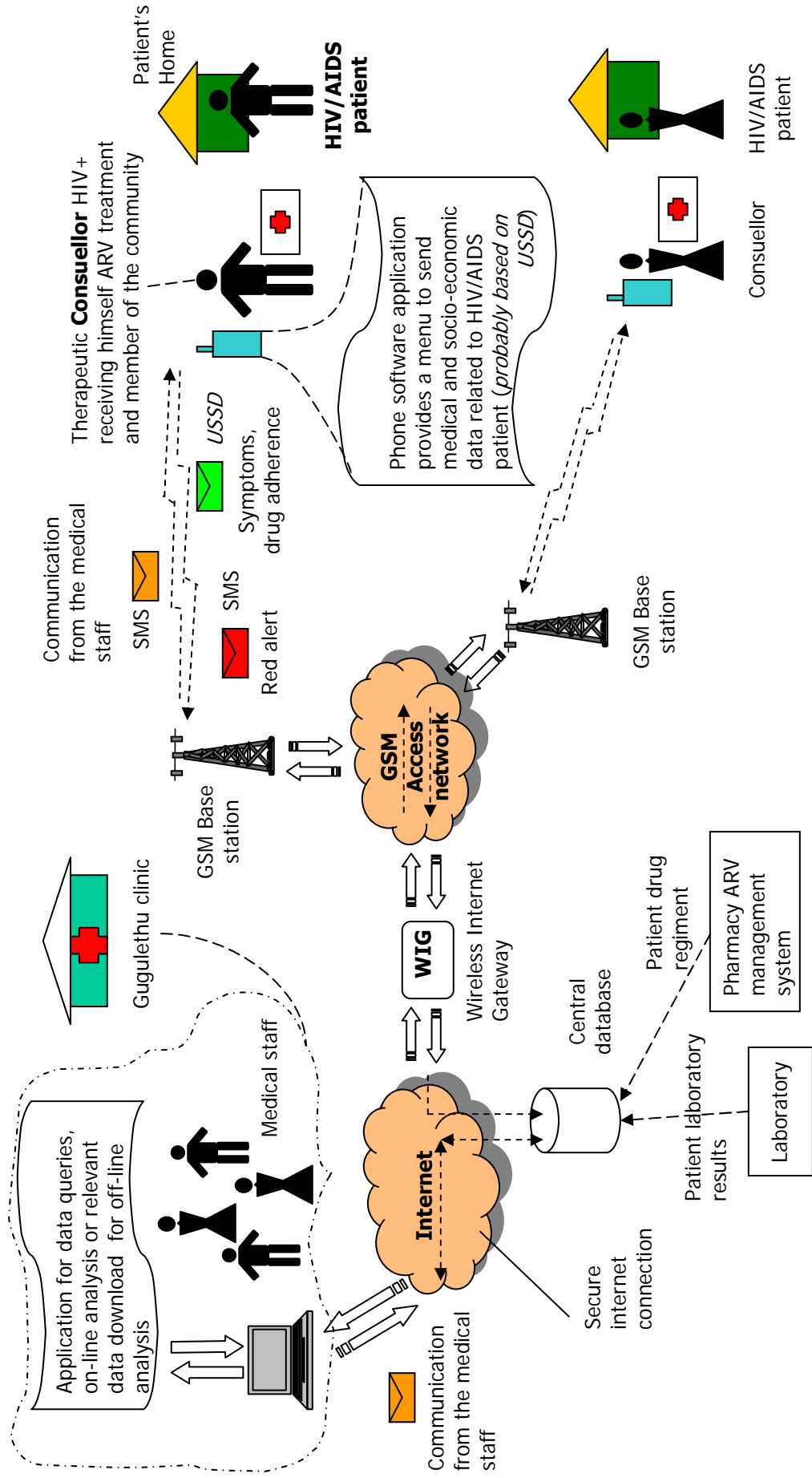
A proposal for a cheap wireless health care system

A key challenge in South Africa

- South Africa has one of the highest HIV infection rates in the world with an estimated 3,8 million people infected as of July 2004 (Statistics South Africa)
- The government has struggled to roll out a national ARV treatment program
- ARV therapy involves numerous drugs. ARV therapy requires a 95% adherence to be effective, and in most cases has to be supported by strict time and dietary requirements.
- The medication needs to be taken several times a day for the rest of the patient's life. Non-adherence to ARV drugs could be more detrimental than helpful, and in some cases may even be fatal.
- The flow of information between doctors, hospitals and patients has always been a challenge in rural South Africa: there are only 18 telephone lines for every 1 000 people in some parts of the country.
- However, more than 90% of South Africa is covered by cellular networks, and with more than a third of all South Africans currently using cellular phones

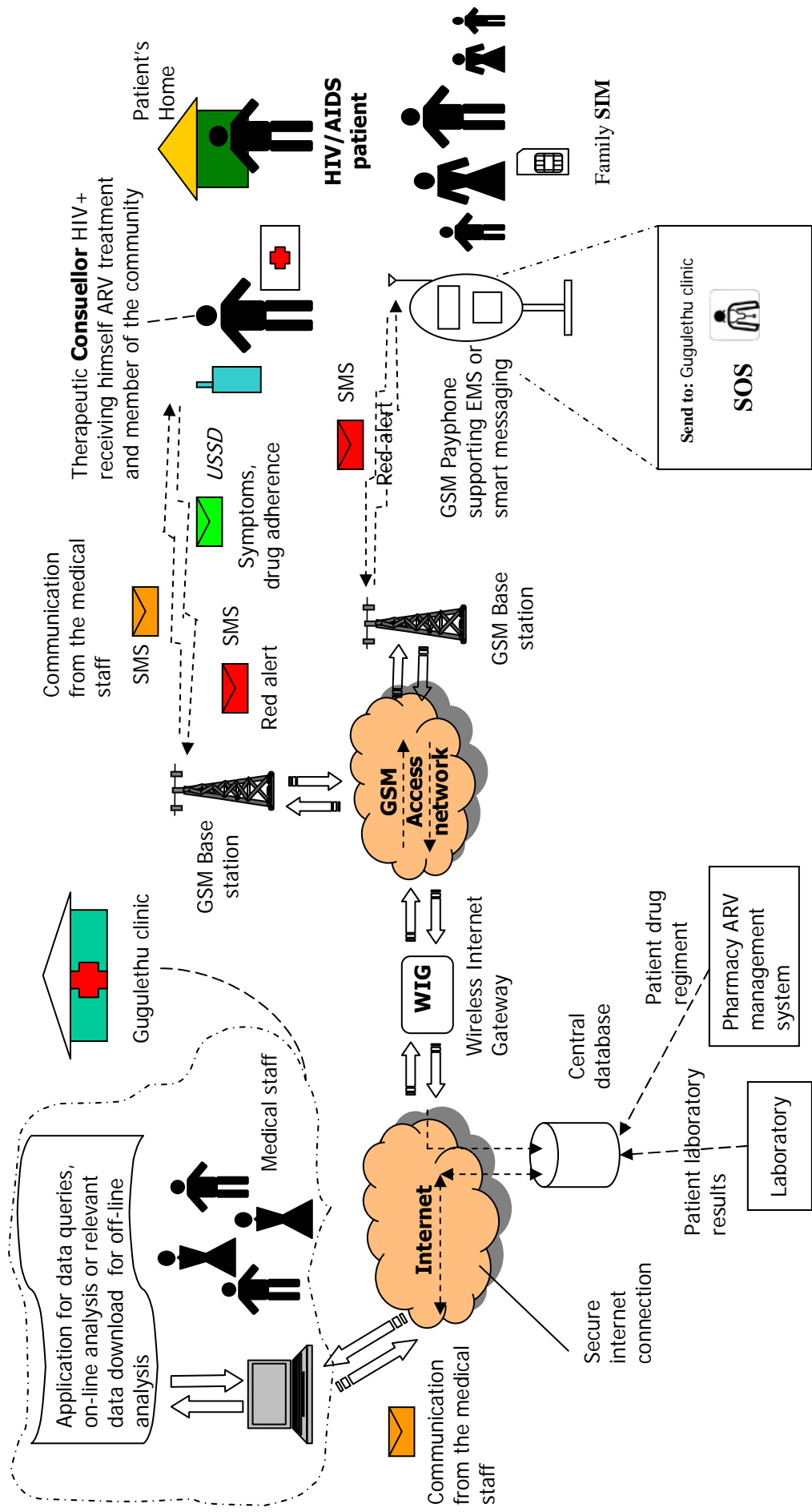
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Cell Life system concept – South Africa (<http://www.cell-life.org/>)



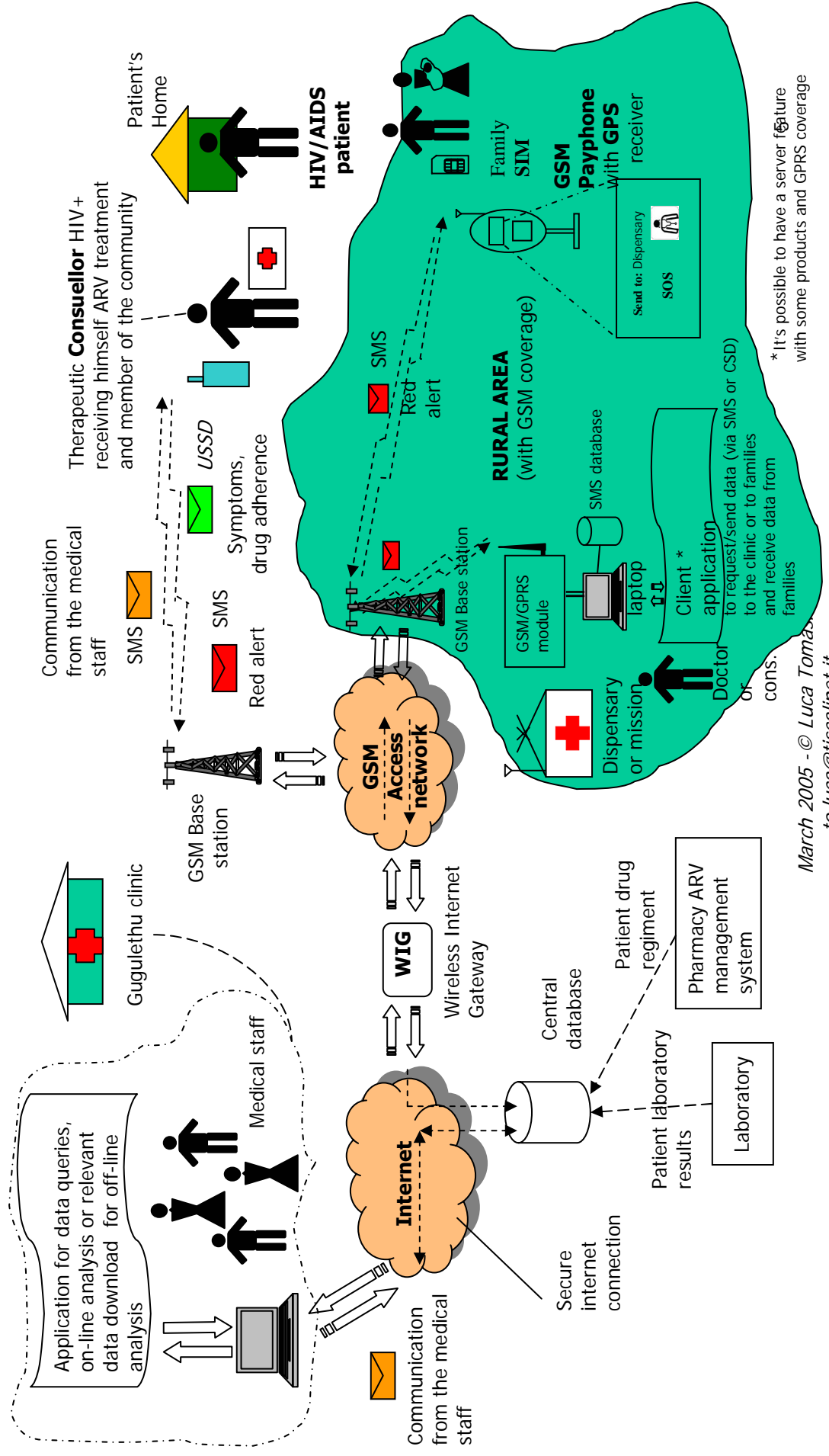
A proposal for a cheap wireless health care system

Extension proposed for Cell Life system model in urban areas



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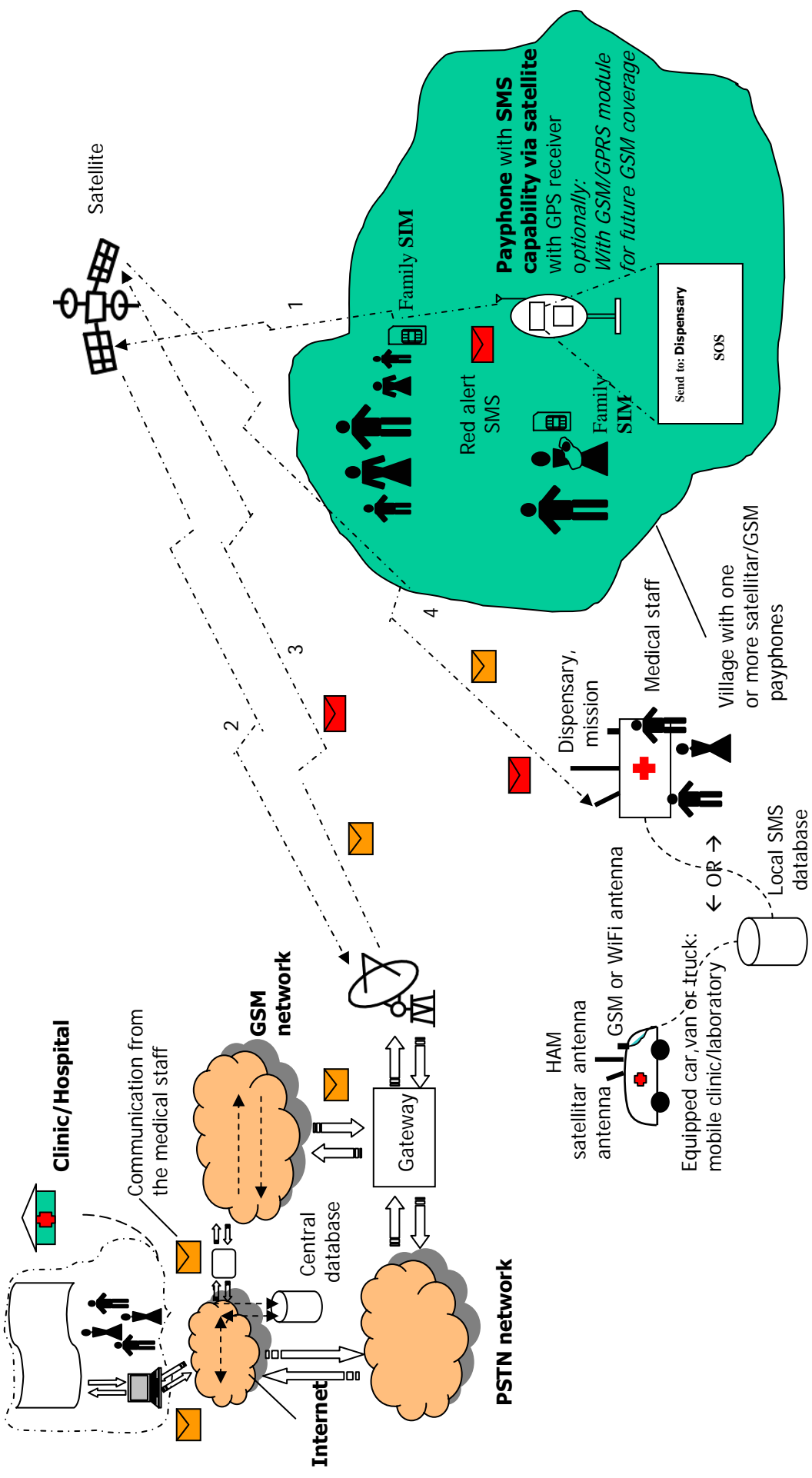
Extension proposed for rural areas with GSM coverage



* It's possible to have a server figure with some products and GPRS coverage

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Rural areas withOUT GSM coverage: virtual extension of GSM coverage



Thank you for your attention