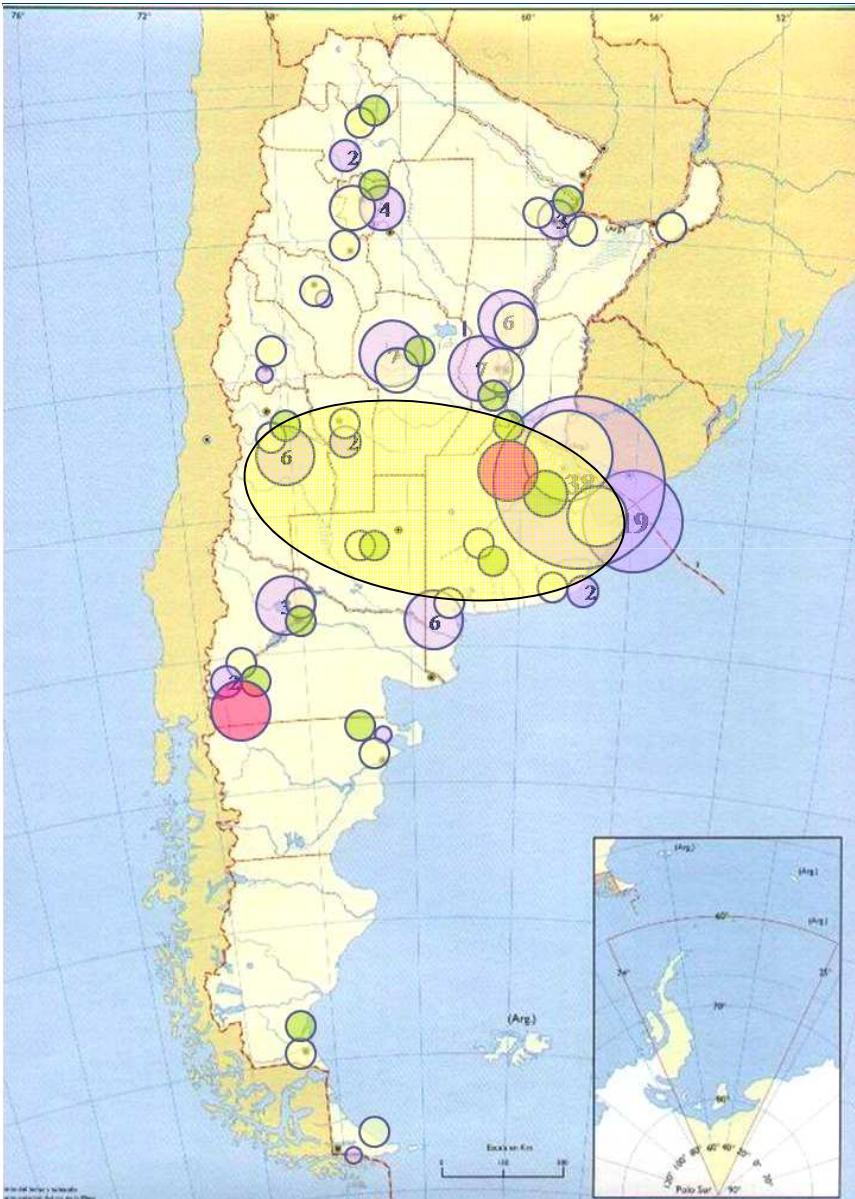


## AN UNFINISHED STORY OF UPS AND DOWNS

Aníbal Gattone  
InnovaRED Argentina`s NREN  
Argentina





- **44 Public Universities**
- **144 NRC Institutes**
- **INTA (agric. + livestock  
b&e) (240/48/12)**
- **CNEA (nuclear) (3)**
- ... + 60 private universities and  
19 state research organisations**

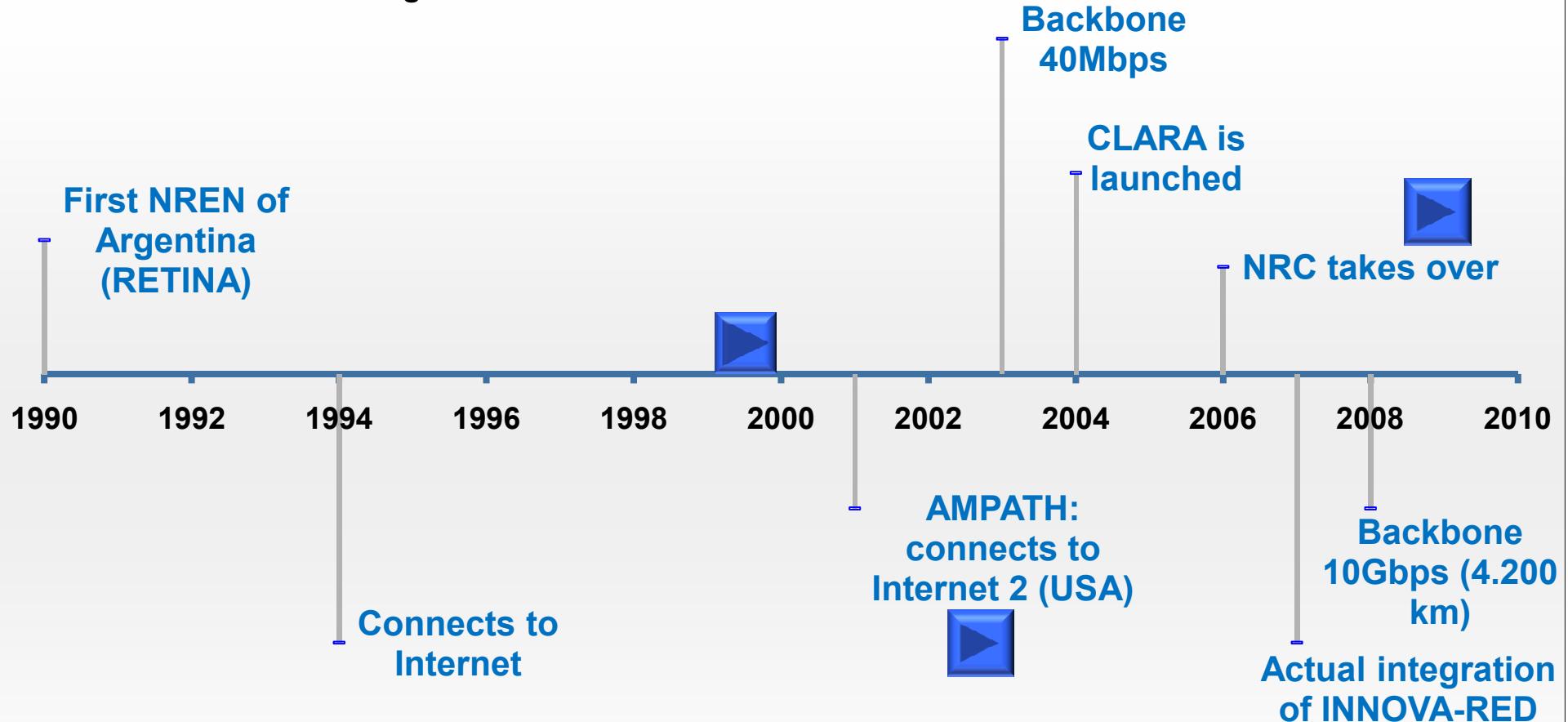
Source: ITU (2009)

The IDI is a composite index made up of eleven different indicators, grouped into three sub-indices. The sub-indices measure ICT infrastructure and access (sub-index access), ICT use and intensity of use (sub-index use), and the capacity to use ICTs effectively (sub-index skills).

## ICT Development Index (IDI), 2002 and 2007, Americas

| Country           | Rank<br>2007 | IDI 2007 | Rank<br>2002 | IDI 2002 | Rank<br>change<br>2002-2007 | IDI change<br>2002-2007 |
|-------------------|--------------|----------|--------------|----------|-----------------------------|-------------------------|
| United States     | 1            | 6.44     | 2            | 5.25     | 1                           | 1.19                    |
| Canada            | 2            | 6.34     | 1            | 5.33     | -1                          | 1.00                    |
| Argentina         | 3            | 4.12     | 3            | 3.06     | 0                           | 1.06                    |
| Chile             | 4            | 4.00     | 4            | 2.97     | 0                           | 1.03                    |
| Uruguay           | 5            | 3.88     | 5            | 2.90     | 0                           | 0.97                    |
| Jamaica           | 6            | 3.78     | 6            | 2.79     | 0                           | 0.99                    |
| Trinidad & Tobago | 7            | 3.61     | 9            | 2.50     | 2                           | 1.10                    |
| Brazil            | 8            | 3.48     | 7            | 2.55     | -1                          | 0.93                    |
| Panama            | 9            | 3.46     | 10           | 2.42     | 1                           | 1.04                    |
| Costa Rica        | 10           | 3.41     | 8            | 2.54     | -2                          | 0.86                    |
| Venezuela         | 11           | 3.34     | 12           | 2.18     | 1                           | 1.16                    |
| Colombia          | 12           | 3.25     | 14           | 2.13     | 2                           | 1.11                    |
| Peru              | 13           | 3.11     | 13           | 2.15     | 0                           | 0.96                    |
| Mexico            | 14           | 3.09     | 11           | 2.38     | -3                          | 0.71                    |
| Ecuador           | 15           | 2.75     | 17           | 1.97     | 2                           | 0.78                    |
| Dominican Rep.    | 16           | 2.65     | 18           | 1.97     | 2                           | 0.68                    |
| Cuba              | 17           | 2.53     | 19           | 1.94     | 2                           | 0.59                    |
| Paraguay          | 18           | 2.52     | 16           | 2.02     | -2                          | 0.50                    |
| Bolivia           | 19           | 2.45     | 15           | 2.03     | -4                          | 0.42                    |
| El Salvador       | 20           | 2.43     | 20           | 1.74     | 0                           | 0.69                    |
| Honduras          | 21           | 2.28     | 23           | 1.31     | 2                           | 0.97                    |
| Guatemala         | 22           | 2.28     | 21           | 1.60     | -1                          | 0.68                    |
| Nicaragua         | 23           | 2.03     | 22           | 1.37     | -1                          | 0.66                    |
| Haiti             | 24           | 1.27     | 24           | 1.05     | 0                           | 0.21                    |

### Timeline of the NREN in Argentina



- US\$1.5 m grant
  - Three interlink centers + Public Data Networks
  - Privatisation of all telecom operations.
  - Commercial cost of 64kbps link



- 1994 connect to Internet
- Market competition
- No federal support
- Join the AMPATH Project (NSF+ GXing+ FIU).  
Further US\$ 1.2m grant.



- 2001 launching of Internet 2
- CLARA raises as a possibility (@LIS)
- 2004 CLARA is launched (80% EC; 20% LAC)
- ...but by 2006 debt to DANTE was accumulating



- NRC (CONICET) takes over.
- 2007 InnovaRed is created.
- 2008 backbone (4200km)



CLARA



INNOVA | RED  
Red Nacional de Investigación  
y Educación de Argentina

- 20 years of an NREN in Argentina. We have come a long way... but we still have a long way to go.
- CLARA creation was a success and a boost. Challenge to make it sustainable
- Strategic alliances necessary for growth.

» Good luck!!

