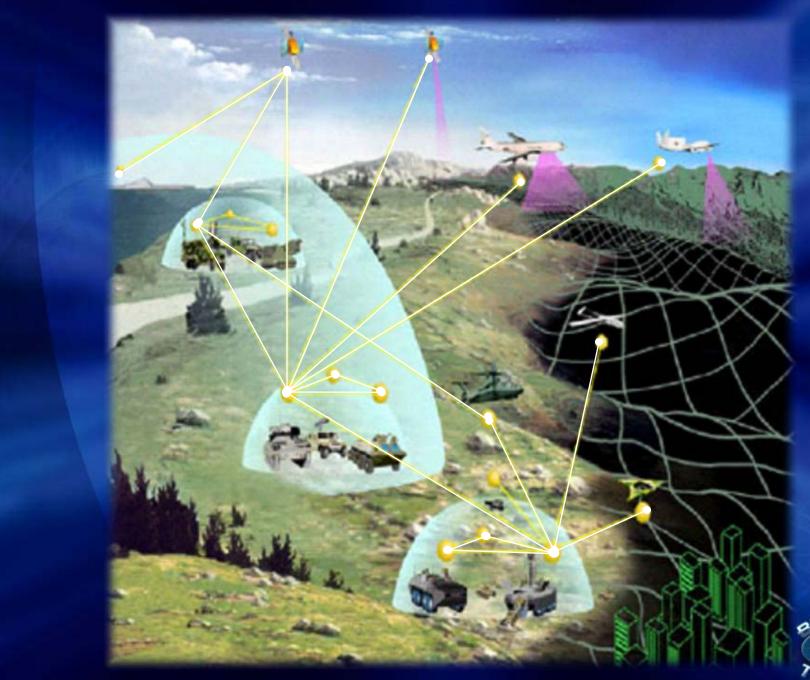
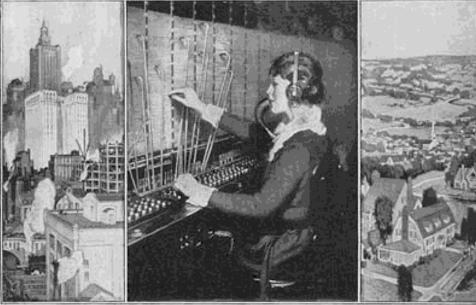
Cognitive Networks J Christopher Ramming











At your service

The courteous girl at the switchboard speaks the first word in more than two million conversations an hour. Presiding day and night at the busy intersections of speech, she is always at the call of the nation's homes, farms and offices.

Out of sight, and most of the time out of hearing of the subscribers, little is known of the switchboard girl-of her training and supervision under careful teachers, and of her swift and skilful work. Likewise, little is known of the engineering problems necessary

telephones within the reach of a girl's arm, or of the ceaseless work of maintenance which in fair weather and storm keeps the mechanism fit and the wires open.

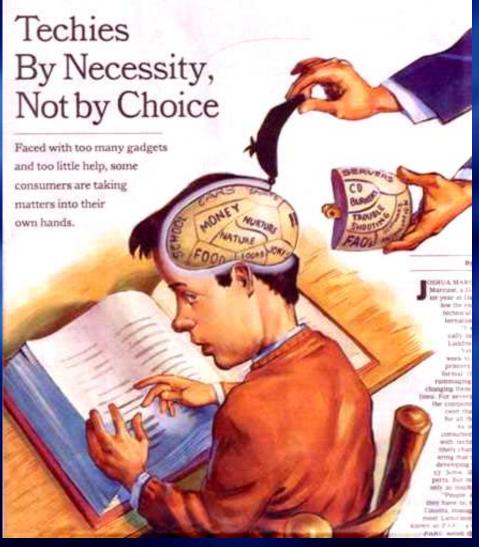
America's millions of people must have at their command means of direct and instant communication, and the Bell System must ever be in tune with the demands of national service.

These are the components of America's system of telephony: The best of engineering, of manufacture, of facilities-and a personnel trained and

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Where We Seek Ideas

- Rethinking the application/network relationship
- Domain-specific languages for network management
- Distributed utility functions derived from mission and user goals for online configuration and diagnosis
- Novel approaches to distributed learning and reasoning about networks

