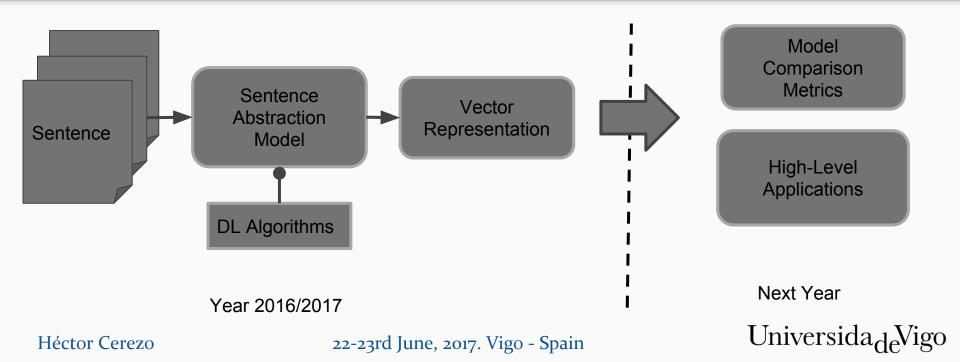
Contribution to research new models of knowledge on BigData systems



Contributions to multilanguage information management using Wikipedia

- STATEMENT:

To leverage Wikipedia concept-based representation alleviates the main drawbacks of the bag-of-words model

† performance



- MAIN OBJECTIVE:

To validate the suitability and benefits of using Wikipedia knowledge to improve the performance of multilanguage information management tasks such as

- Information Retrieval
- Text classification



Author: Marcos Antonio Mouriño García

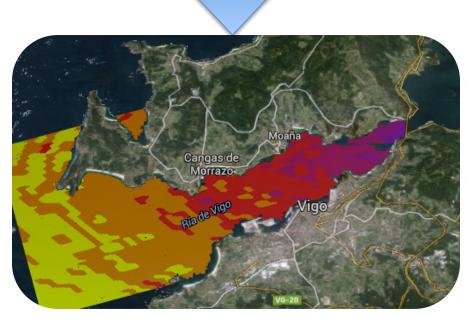
Advisor: Luis Anido Rifón



UNDERWATER NOISE MAPPING METHODOLOGIES FOR SHALLOW WATERS

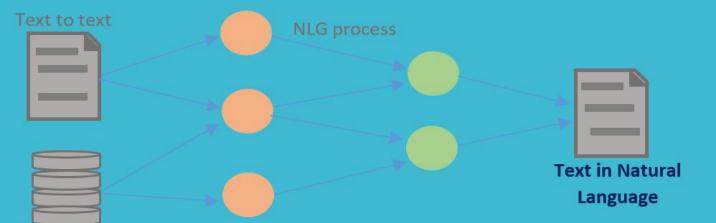
Author: David Santos-Domínguez | Thesis advisor: Soledad Torres-Guijarro | Affiliation: Sonitum (TSC, Universidad de Vigo)

- **O1** Underwater noise measurement methodologies.
- **O2** Propagation Losses calculation using both experimental and analytic models.
- **O3** Study of underwater noise prediction software.
- **O4** Classification of the different noise sources available in Ría de Vigo.
- **O5** Noise map construction methodologies.
- O6 Construction of an underwater noise map of Ría de Vigo.



Ría de Vigo underwater noise map recreation

Contribution to Natural Language Generation for Spanish



Is it complete?

Is it coherent?

Does it have sense?

...?

Goals



annotation

- First version of an automatic Spanish NLG system based on linguistic knowledge and statistics.
- Application of NLP techniques.
- Test the system performance and flexibility.
- Extending our system to English.
- Test the Spanish and English versions within a communicator.

Is the generation process automatic?

Silvia García Méndez



Data to text

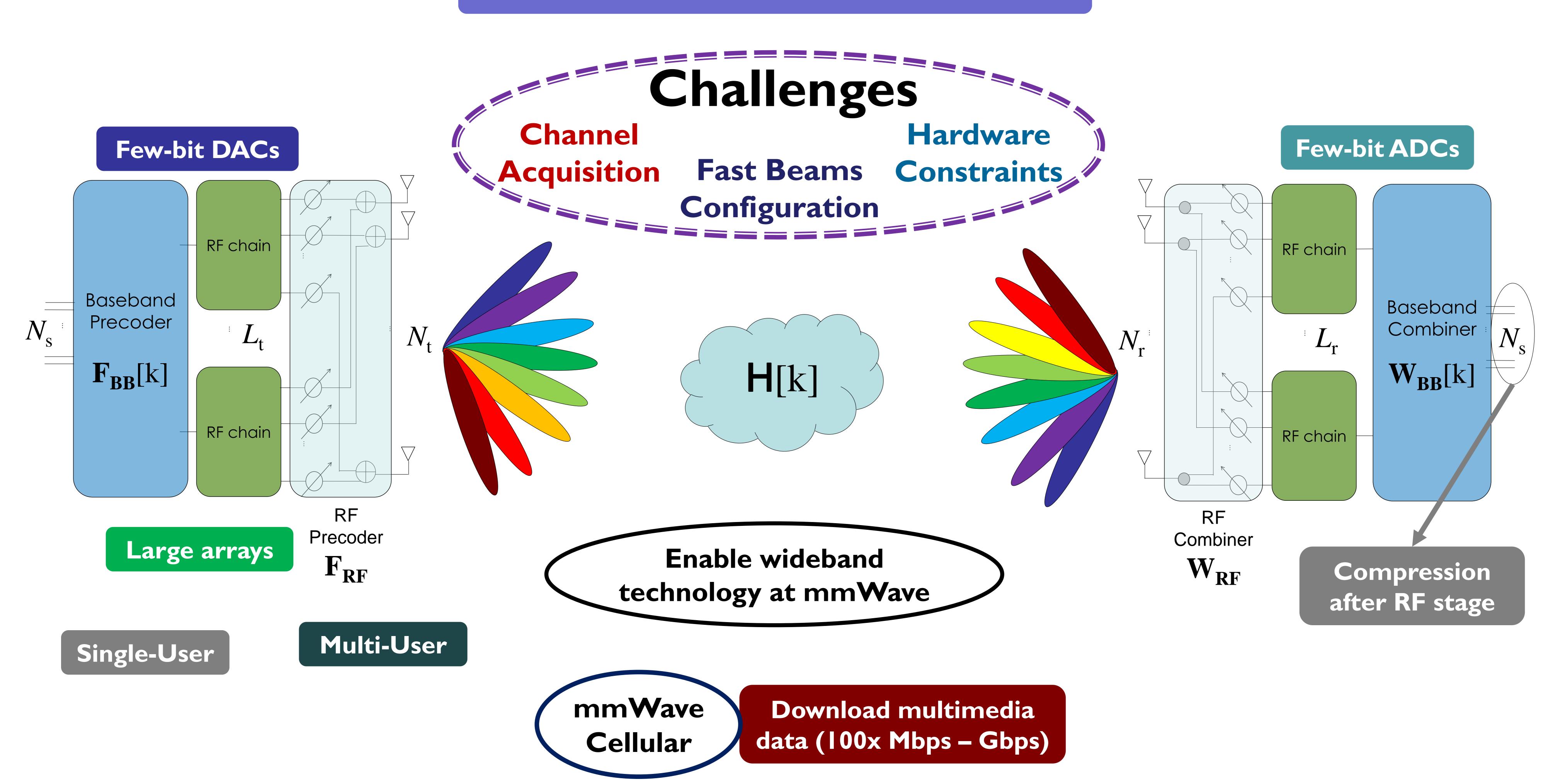


SPARSE SIGNAL PROCESSING FOR MILLIMETER WAVE COMMUNICATIONS

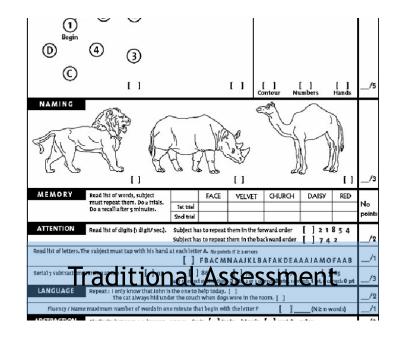


Javier Rodríguez-Fernández and Nuria González-Prelcic {jrodriguez,nuria}@gts.uvigo.es

Conventional MIMO vs. mmWave MIMO



MAIN GOAL: EARLY DETECTION OF COGNITIVE IMPAIRMENT







GAME DATA UNITY



GAME ANALYTICS LR, CART, SVM, RF...



Workshop on Monitoring PhD Student Progress

University of Vigo, June 22-23, 2017

EARLY DETECTION OF COGNITIVE IMPAIRMENT THROUGH GAMIFICATION, MACHINE LEARNING TECHNIQUES AND ICT TOOLS

Author:

Sonia Mª Valladares Rodríguez (soniavr@det.uvigo.es)

Advisors:

Luis Anido Rifón (Full Professor)

J. Manuel Fernández Iglesias (Associate Professor)

Tonal and Harmonic Source Localization using Acoustic Vector Sensors

Universida_{de}Vigo

David Pérez Cabo, Microflown AVISA, cabo@microflown.com Advisors: Manuel A. Sobreira Seoane, Universidade de Vigo, msobre@gts.uvigo.es Hans Elias de Bree, Microflown AVISA, debree@microflown.com



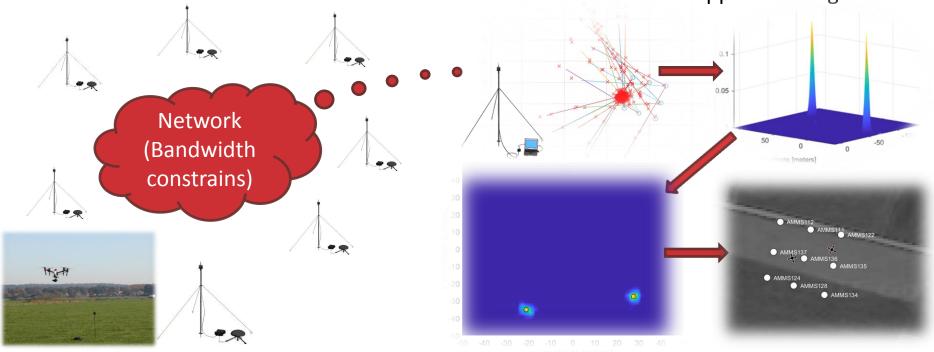
2017 WORKSHOP ON MONITORING PHD STUDENT PROGRESS, VIGO

Distributed signal processing:

- Directional information
- Feature extraction
- NS-BASS?
- Data compression

Centralized source tracking:

- Unknown and time-varying number of sources
- Non-linear problem
- Non-stationary problem
- RFS + PF + Doppler-Bearing Fusion

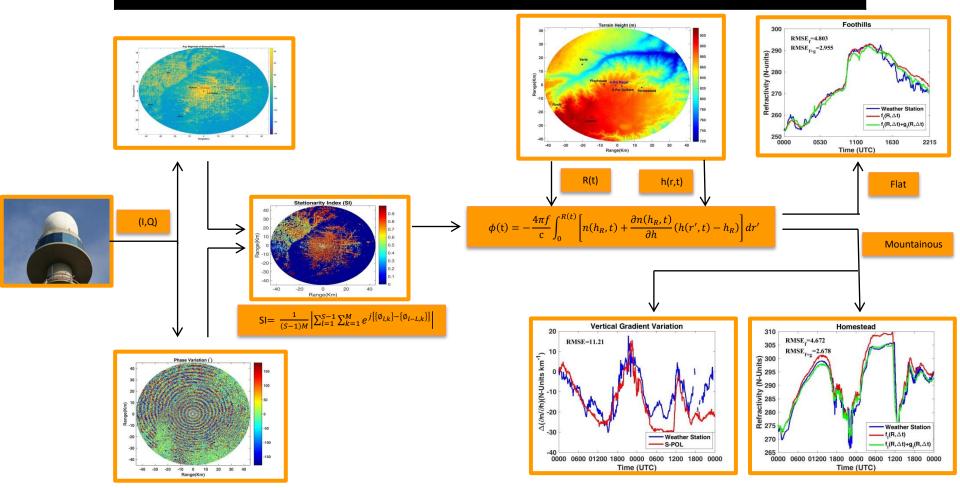




Rubén Nocelo Advisor: Verónica Santalla



ESTIMATION OF THE ATMOSPHERIC REFRACTIVITY FROM WEATHER RADAR DATA



STUDY OF THE UNCERTAINTY AND ITS MINIMIZATION IN THE MEASUREMENTS OF ANTENNA GAIN IN FAR-FIELD CONDITIONS

Telecommunication services require precise measurements of antenna parameters

TRUE VALUE = MEASUREMENT RESULT ± UNCERTAINTY

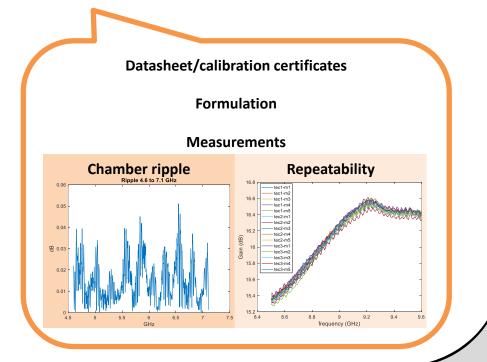
Reliability of measurements Comparison with others.

Globally accepted measurement procedures but no standard for uncertainty

Uncertainty factors

Instrumentation Facility Measurement method Device under test Others

Uncertainty computation





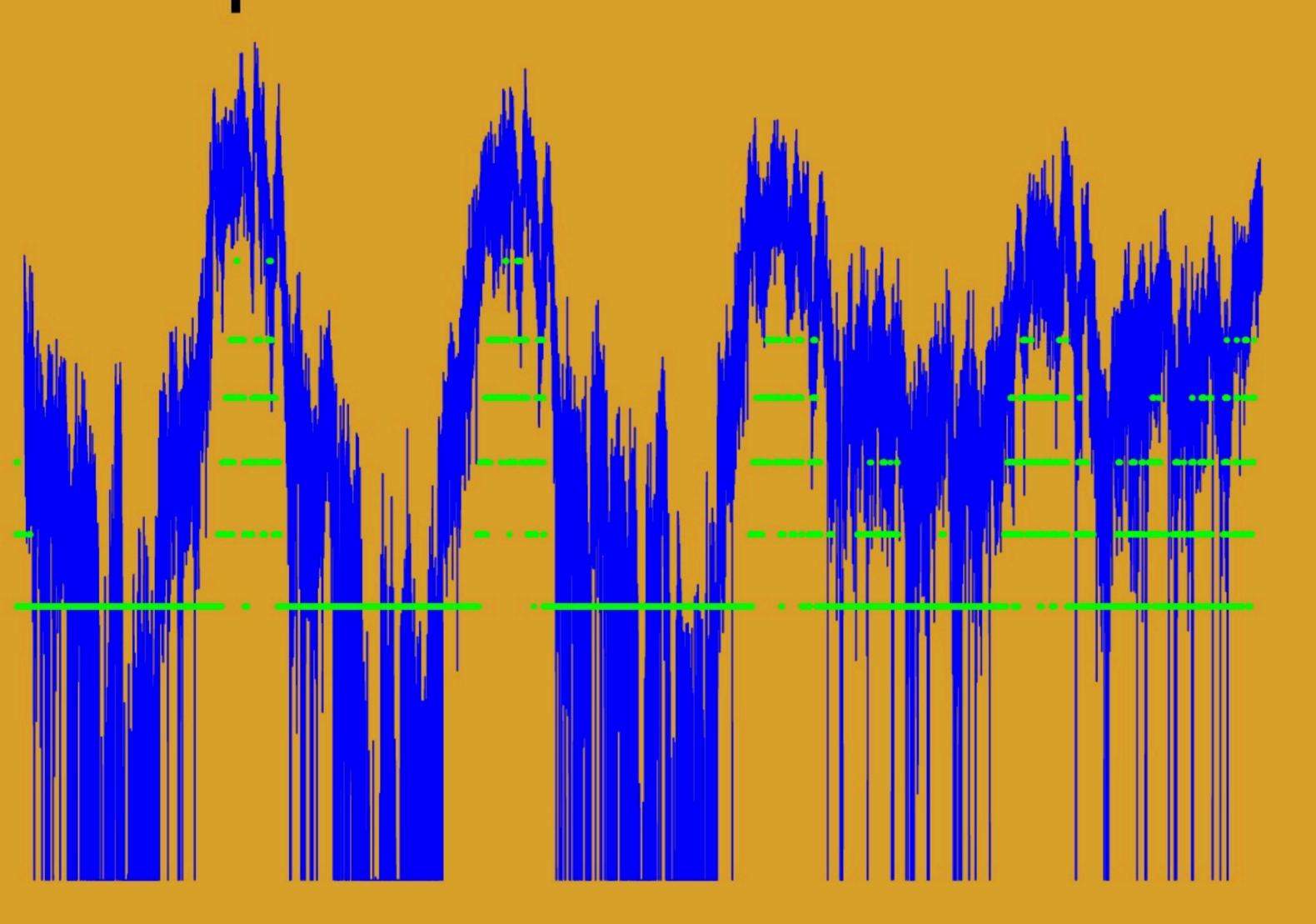


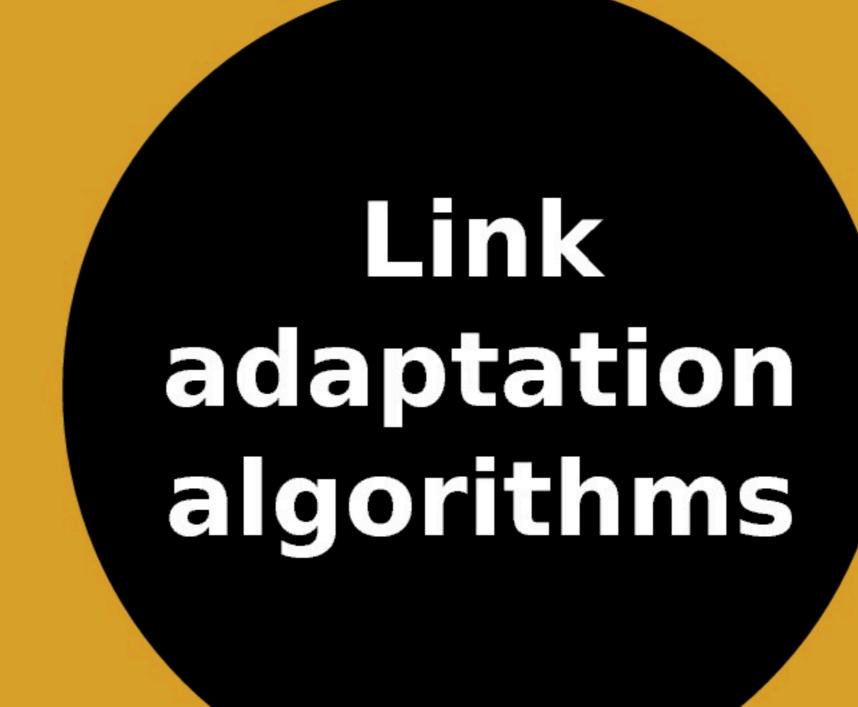


Application of Programmable Radios to Adaptive Communications

Anxo Tato Arias

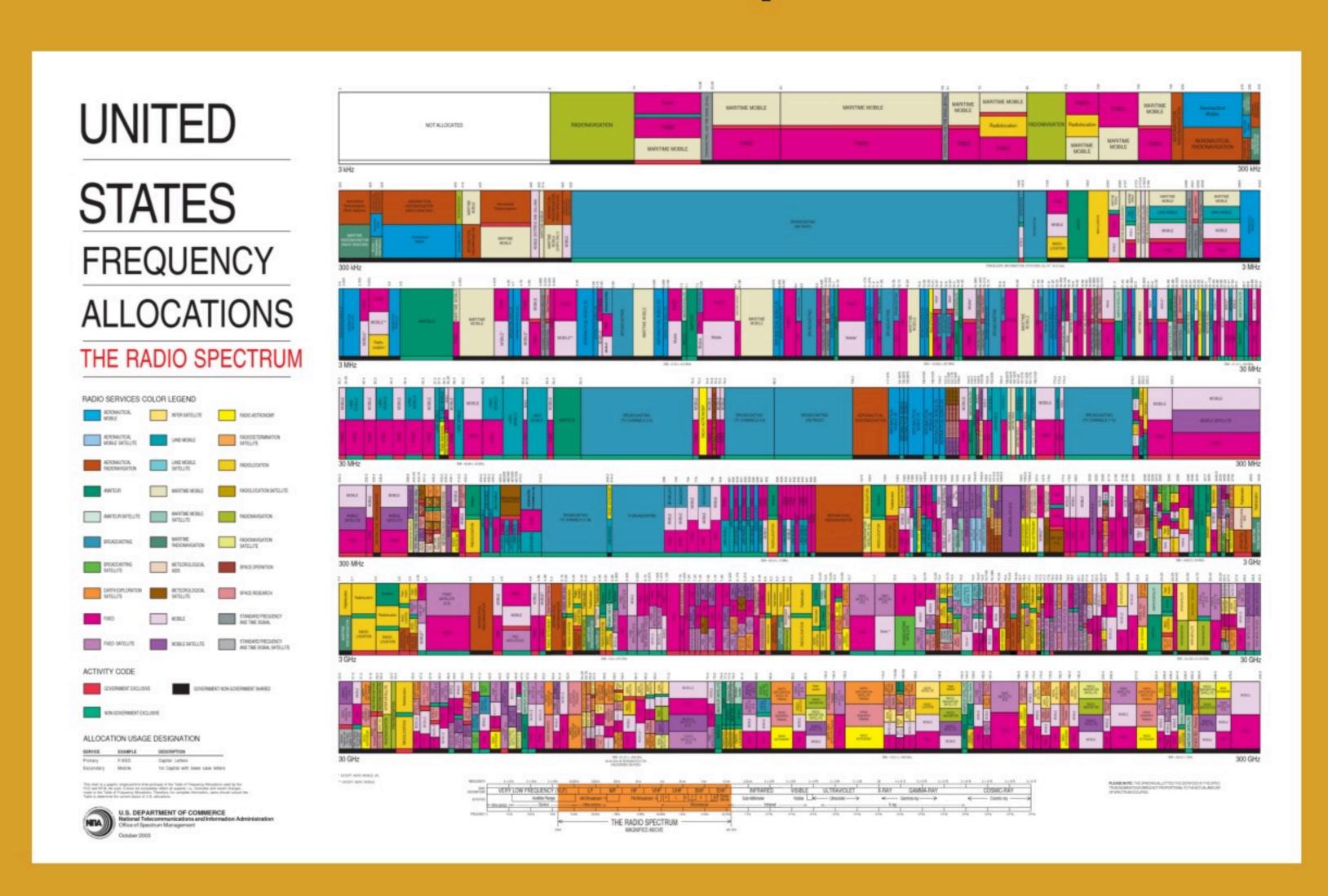
Adaptation to environment







Best use of spectrum



Software Defined Radios