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Rami Grossberg* (rami@cmu.edu), Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA 15213. *On the white parts of the map of classification theory for AECs*. Preliminary report.

The notion of Abstract Elementary Class was introduced by Shelah and circulated in 1977 in a preprint of [Sh88] that was published only in 1987. Already in the title of [Sh88] we find the far reaching vision of Shelah: “Classification Theory for AECs”, there was little evidence in that paper that a classification theory analogous to what was known already for first-order theories is possible. Around 1980 two important families of conjectures were identified. Despite of much significant progress of our understanding of the subject and several thousands of pages in print on AECs, even the special cases of these conjectures for $L_{\omega_1, \omega}$ are widely open.

In my talk I will emphasize the conjectures, describe some progress and will state several related open problems. (Received September 16, 2014)