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At the forefront of sustainable urbanism

Native hardwood forestry in urban areas



LIFE Lugo + Biodinámico is a European project promoted by the Concello de Lugo, pioneer in eco-sustainable planning in medium-sized cities, taking advantage of the use of own natural resources and boosting the green economy. Among the measures to be developed are the construction of the first public building built with Galician wood, the design of the first multi-ecological neighbourhood in Spain and the elaboration of a catalogue of sustainable urban solutions, exportable to other European cities.

In addition, informative spaces will be created for the scientific community and society in general with plantations of tree species and autochthonous shrubs that demonstrate their potential for the development of sustainable urbanism.

Establishment of a demonstration plot of Galician native deciduous species of medium to rapid growth for the production of quality wood.

In the industrial estate of As Gándaras (Lugo), a demonstration experience of the possibilities of the forestry of four species of Galician autochthonous deciduous hardwoods, with production potential: **Oak, Cherry, Ash** and **Maple**, was established in the autumn of 2017.





Oak

Carballo común *Quercus robur* L. Roble común

Species of slow growth in the first years and somewhat faster and sustained later. It supports low temperatures in winter and late frosts up to 1500-1700m altitude.

It can get the 30-35m of height

being long-lived trees that can get to live 500-600 years or even to surpass the 1000 years.

Its wood is one of the most useful, among others, is used for the manufacture of floors, furniture (exterior and interior), doors, windows, boats and barrels of wine and whiskey. It also provides firewood and charcoal of very good quality.

Cherry

Cerdeira *Prunus avium* L. Cerezo

Medium-growth tree that can reach 25-30m in height. It supports intense winter colds, but is sensitive to late frosts, which limits the maximum altitude it can reach (1100-1200m).

Its forest interest lies in its

landscape value, derived mainly from its flowering, which occurs before the leaves sprout, the color of its leaves in autumn and the possibility of producing wood of excellent quality.

Its wood is exceptional, easy to saw and with an excellent reddish finish. It does not resist bad weather, nor the changes of humidity. Considered very valuable, decorative and precious in luxury joinery, interior construction, turnery and marquetry.





Ash tree

Freixo *Fraxinus excelsior* L. Fresno

A fast-growing tree that can reach a height of 30-35m and a life span of 150-200 years.

It requires humid summers, requiring abundant and continuous water supply over time. It does not support

periods of dry soil. Species not especially sensitive to cold but to late frosts.

Appears from sea level to 1000m altitude. Its wood is of excellent quality, flexible and used in the manufacture of handles for tools, floors, furniture, boats or turning.

Maple

Pradairo *Acer pseudoplatanus* L. Arce

Species of rapid growth in the first years, decreasing in maturity.

It can reach 25-30m in height and live up to 150-200 years. Resistant to cold and frost, reaching up to 1300m altitude in Galicia.

Its wood is white, easy to work, light, hard and of good mechanical resistance. It can be considered as high quality. Used in carpentry in general and prized in cabinetmaking and turning.

