

Prolific Pongamia: Potential to restore equilibrium between people and planet

Budi Leksono*, Yusuf B Samsudin^b, Syed A Rahman^{a,c}, Seongmin Shin^b, Jino Kwon^{a,d} and Himlal Baral^a
^aFORDIA MoEF, ^bCIFOR, ^cPeking University, ^dNiFoS

Pongamia pinnata...

has multiple uses such as food, animal feed, energy and landscape restoration [1]

is a fast-growing leguminous tree - able to fix its own nitrogen from the soil [2]

has high oil content (up to 40% of seed weight) [3]

grows on a wide range of conditions from coastal, tidal streams and drylands [4]

has the ability to grow on degraded and marginal land - no direct competition to arable land [5]

has a deep root system, drought and salt tolerance [6]

Pongamia is native to...



Indonesia

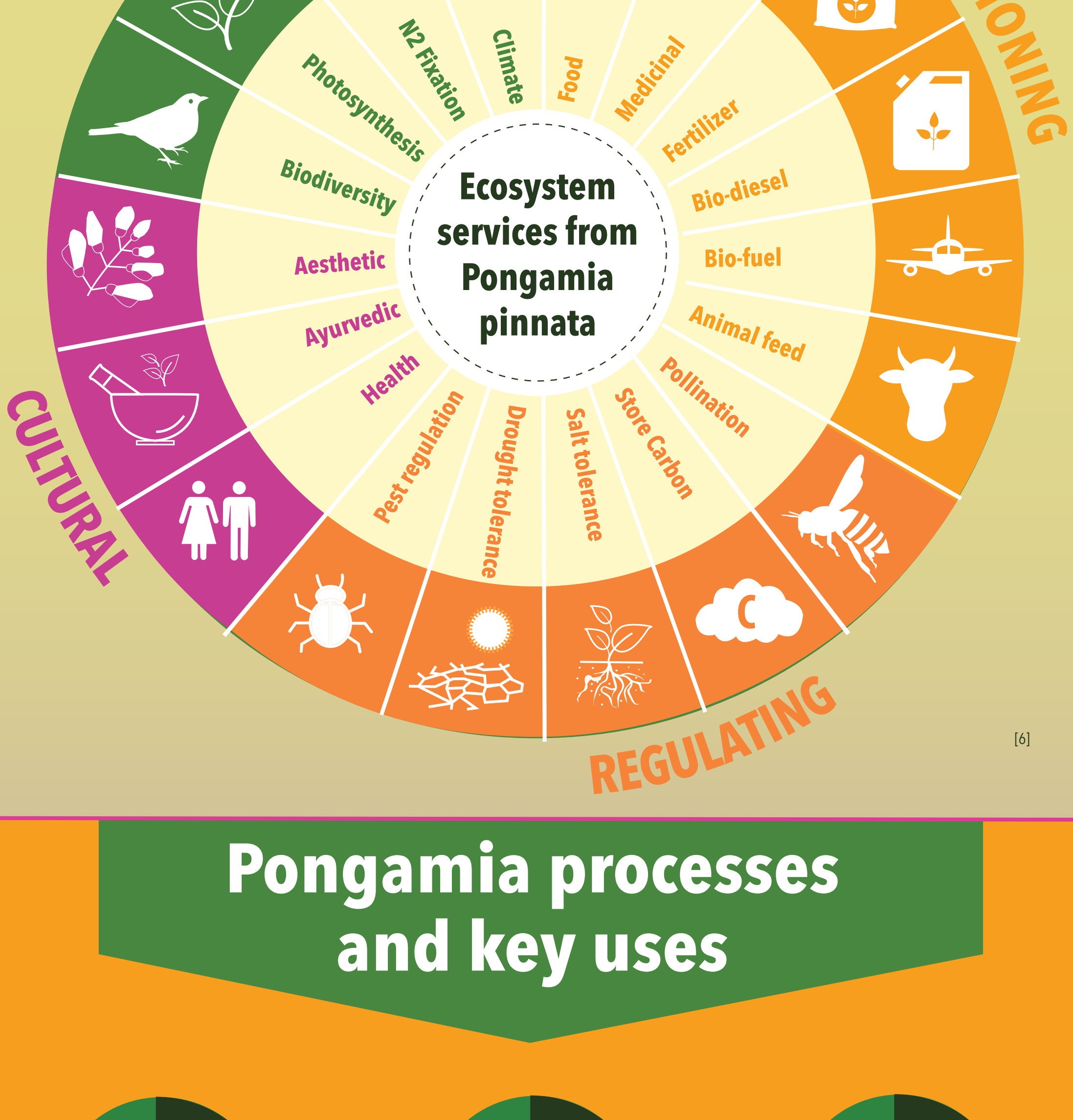


India



Burma

and other South Asian and South East Asian countries



Pongamia processes and key uses



N2-fixation [8]



Honey [9]



Food supplement [10]



Essential oil [11]



Bio-diesel [12]



Aviation biofuel [13]



Organic fertilizer [14]

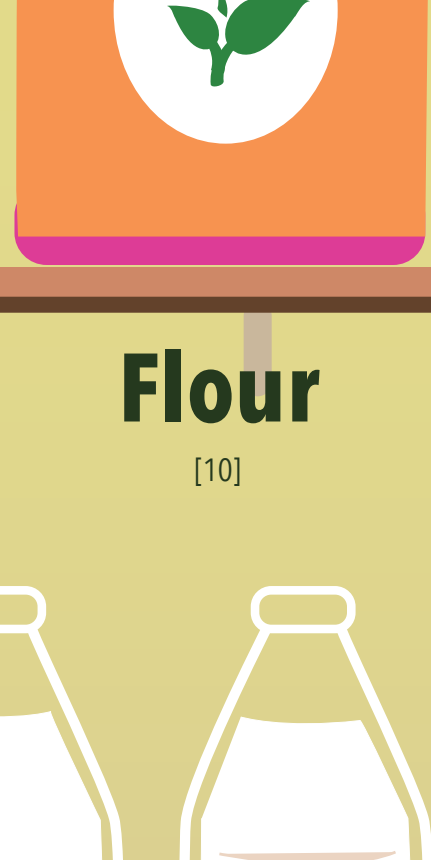


Supports biodiversity [6]

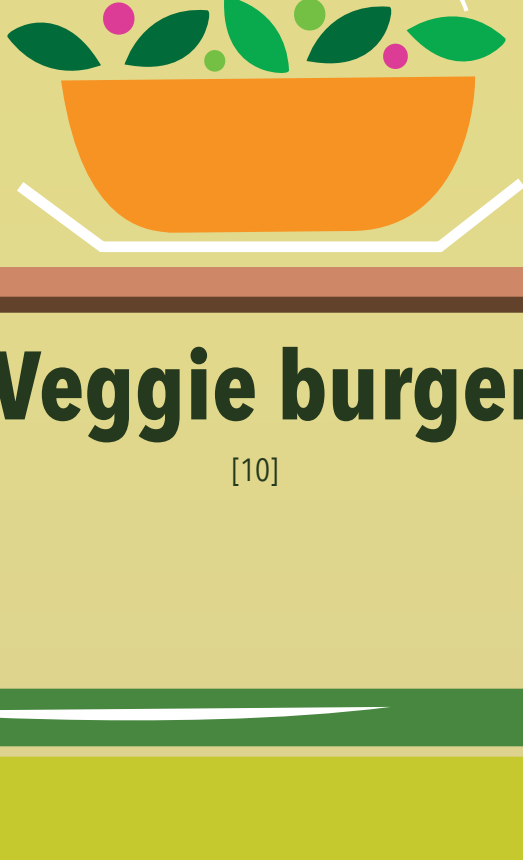
Pongamia based food products include...



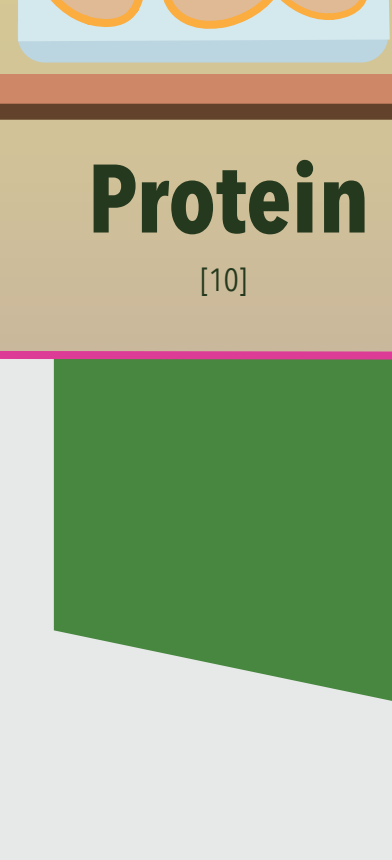
Vegetable oil [10]



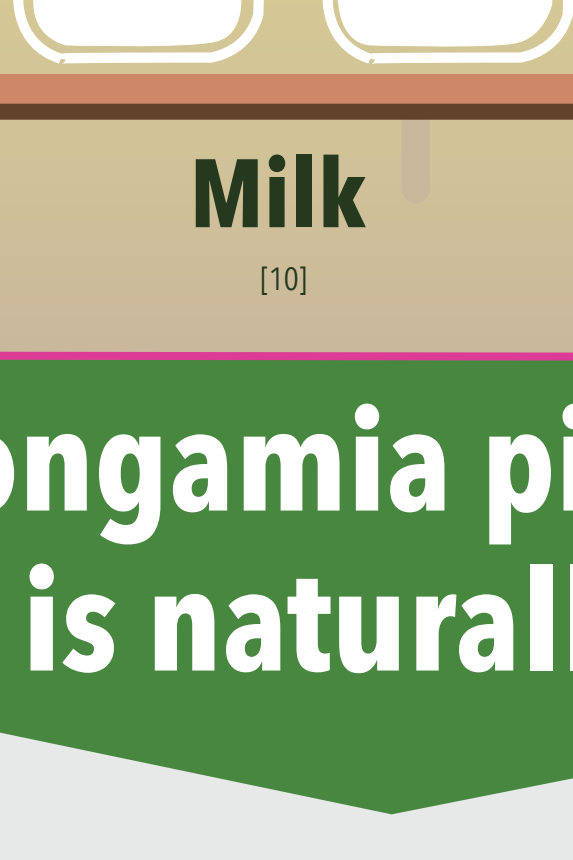
Flour [10]



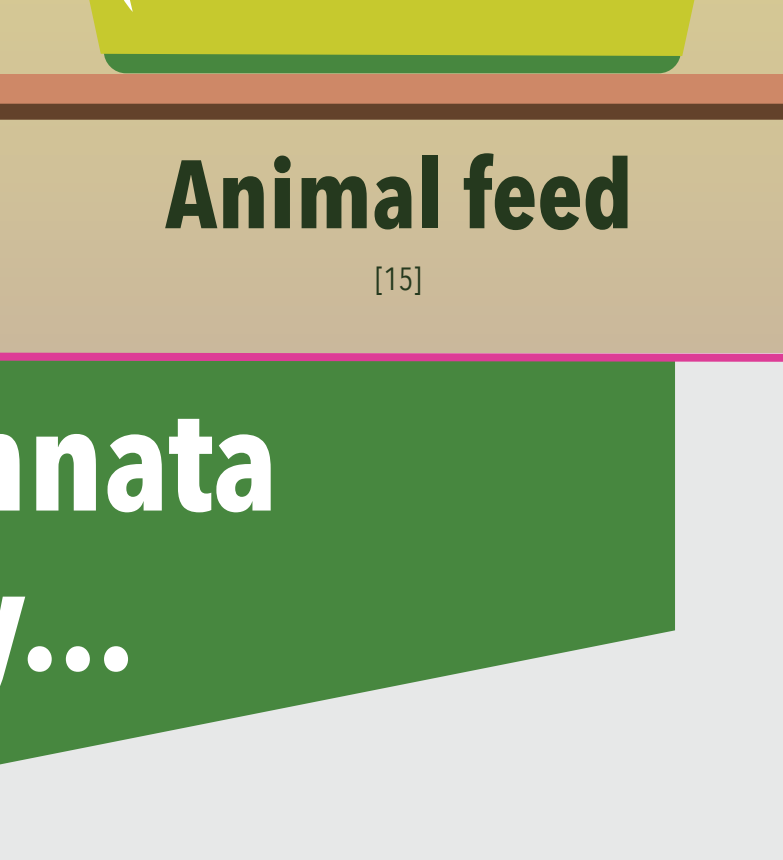
Veggie burger [10]



Protein [10]

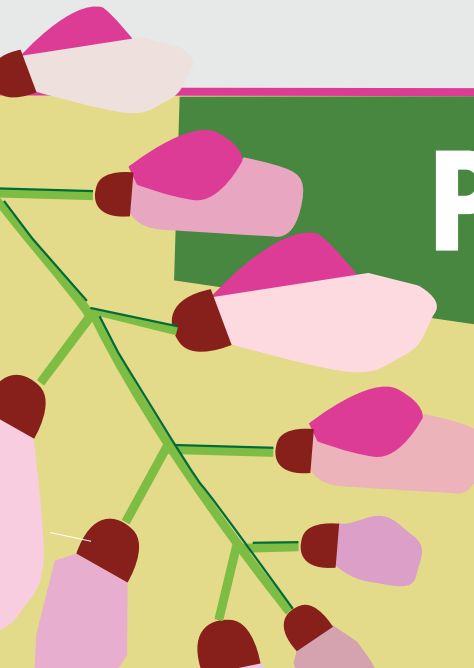


Milk [10]



Animal feed [15]

Pongamia pinnata is naturally...



Pest resistant [10]



Salt tolerant [16]



Drought tolerant [12]



A nitrogen fixer [8]

Pongamia pinnata has...

High carbon sequestration potential

Useful in mitigating the impact of climate change by sequestering carbon. A study showed that a 5-year old pongamia plantation has a carbon sequestration of around 49.28 t ha⁻¹ [17]

Use as fertilizer in agriculture

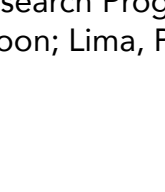
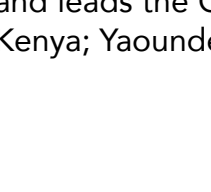
Pongamia seed cake has a valuable source of plant nutrients for sustainable agriculture [14]

Medicinal properties

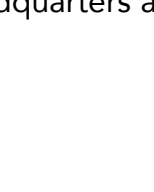
Different parts of the plant are traditionally used for the treatment of various ailments including bronchitis, whooping cough, rheumatism, diarrhoea. It can be applied on the skin to heal wounds as well as treat eczema [15-16]

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