

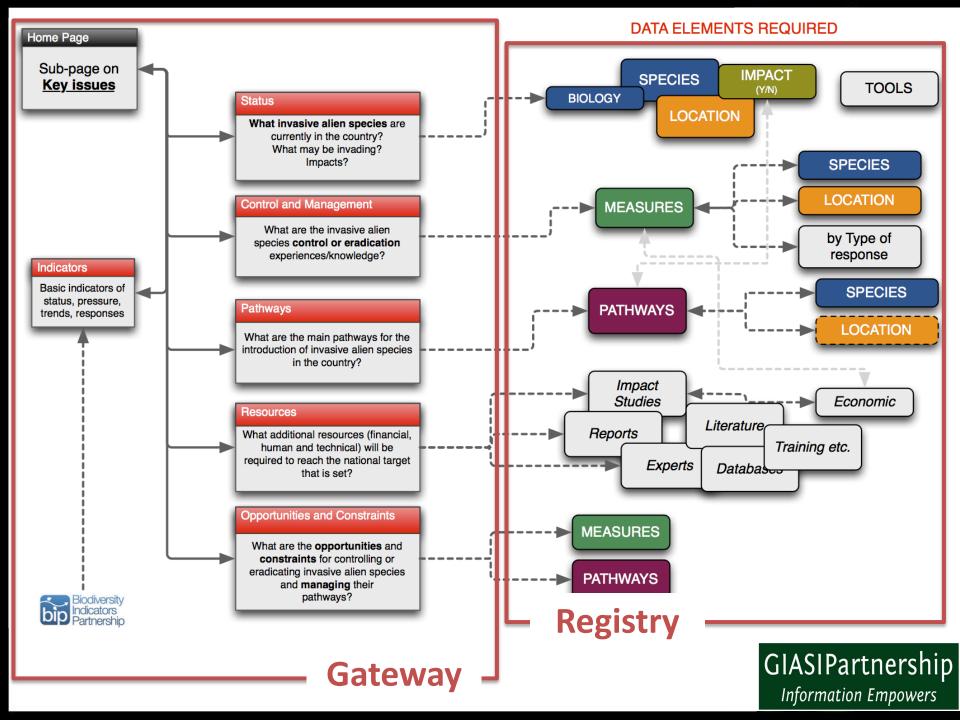


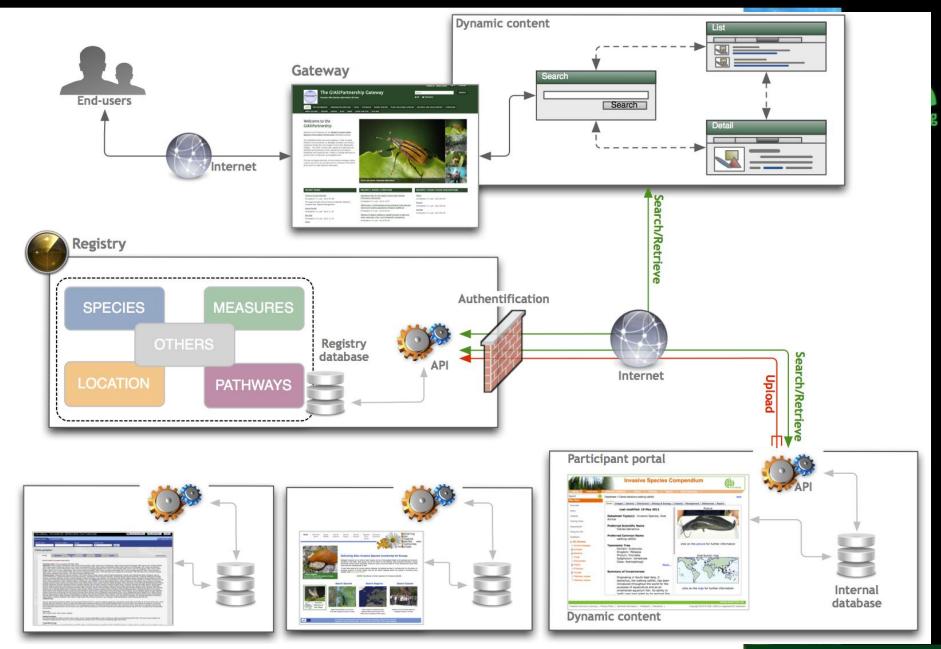
GIASIPartnership Information Empowers

The interoperability challenge

Samy Gaiji Senior Programme Officer for Science Global Biodiversity Information Facility (GBIF)

Montreal, October 2013





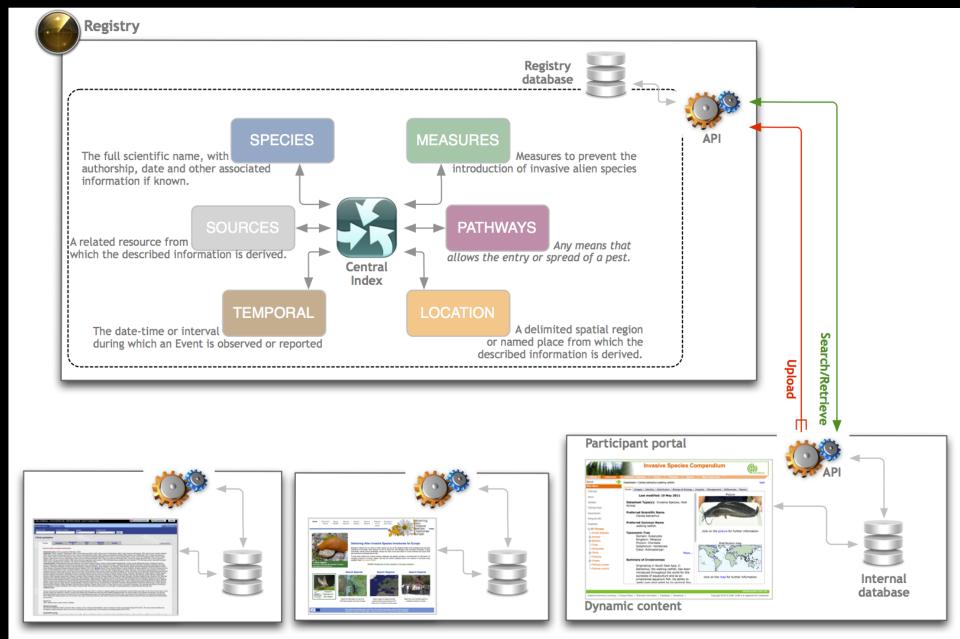
GIASIPartnership Information Empowers

Principles

- Open data.
- License free.
- Open source implementation.
- Building on existing services and tools (e.g. GBIF web services).
- All Partners can contribute and retrieve data.
- All information is properly cited.

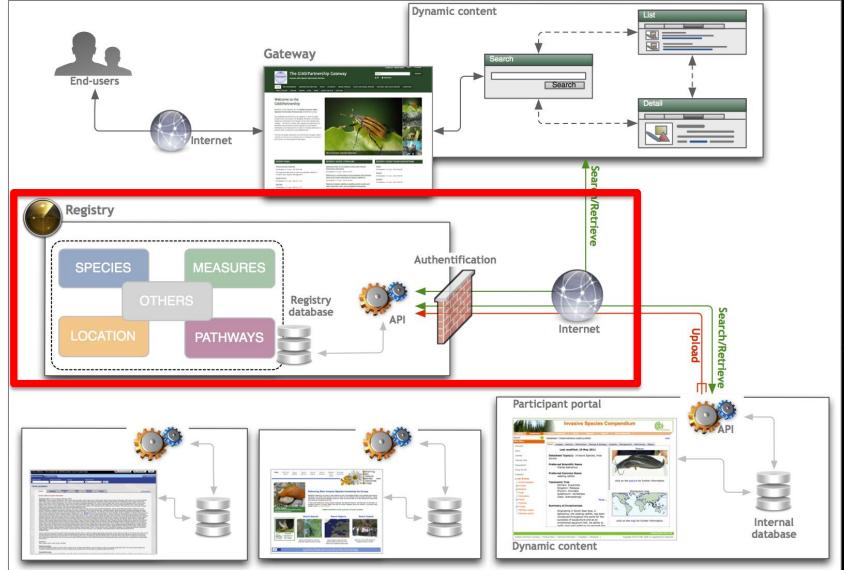


GIASIPartnership
Information Empowers



How does it look like?





The GIASIPartnership Registry

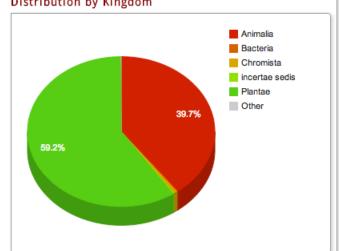
Signed in as ISSG Logout

Manage Country Info

Distribution by Kingdom

Inventory of IAS species





List of Publishers (test):

| Name | ♦ Full Name ♦ | |
|----------|--|--|
| Admin | Administrator (GBIF) | |
| CALFLORA | The Calflora Database | |
| DAISIE | Delivering Alien Invasive Species Inventories for Europe | |
| GBIF | Global Biodiversity Information Facility | |
| GISIN | Global Invasive Species Information Network (test) | |
| GISP | Global Invasive Species Programme (test) | |
| IASI | Invasive Alien Species Indicator (test) | |
| ISSG | Global Invasive Species Database | |
| NASP | Nonindigenous Aquatic Species Program (test) | |
| | | |
| | 9 item(s) | |

- > **2,200** species
- > 120 countries



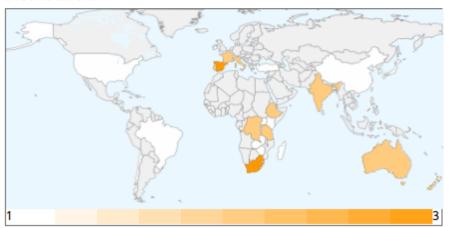


Shared view by species

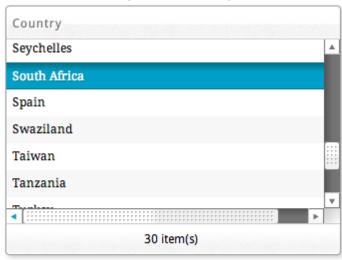
Publishers:

| Name | • | Publisher | Ф |
|-----------------|-----------|-----------|---|
| Acacia mearnsii | | IASI | |
| Acacia mearnsii | | DAISIE | |
| Acacia mearnsii | | GISP | |
| Acacia mearnsii | | GBIF | |
| | | | |
| | | | |
| | | | |
| | 4 item(s) | | |

Distribution:



Countries where presence is reported:



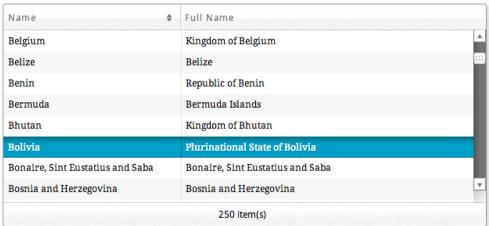
Presence report by Publisher:

| Year \$ | Publisher | • |
|---|------------|----------|
| 1977 | GBIF | <u> </u> |
| 1982 | GBIF | |
| 1986 | GBIF | |
| 2011 | GBIF | |
| | GISP | |
| | IASI | , |
| ∢ [:::::::::::::::::::::::::::::::::::: | | ······ |
| | 10 item(s) | |

Shared view by country

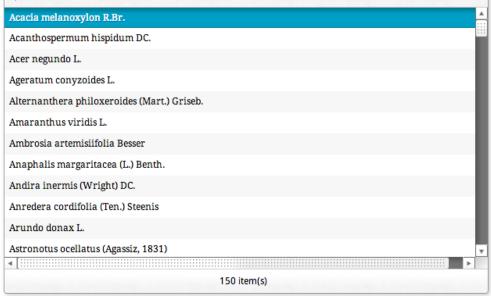
Select a Country: Full N Name Belgium Kingd Belize Belize Benin Repub Bermuda Bermi Bhutan Kingd Bolivia Plurir Bonaire, Sint Eustatius and Saba Bonai Bosnia and Herzegovina Bosnia



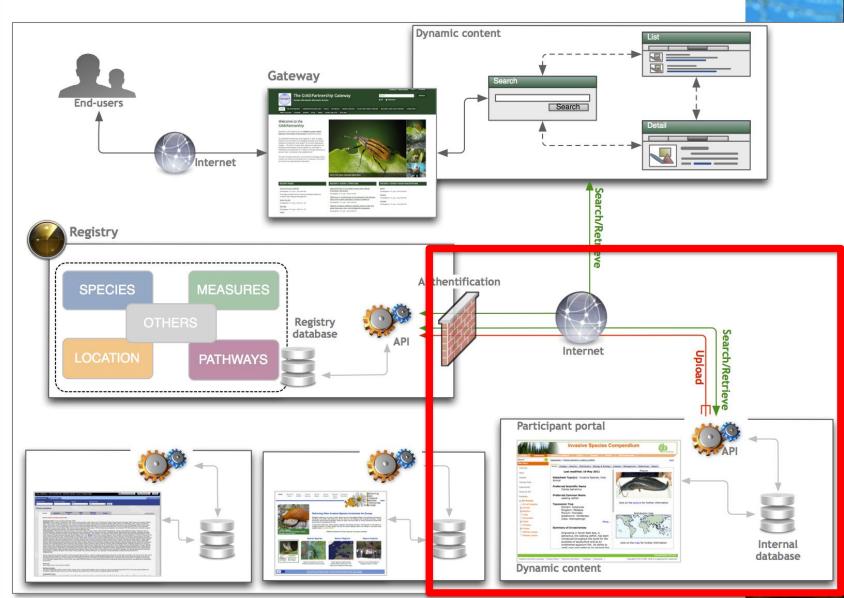


List of IAS Species in this country:

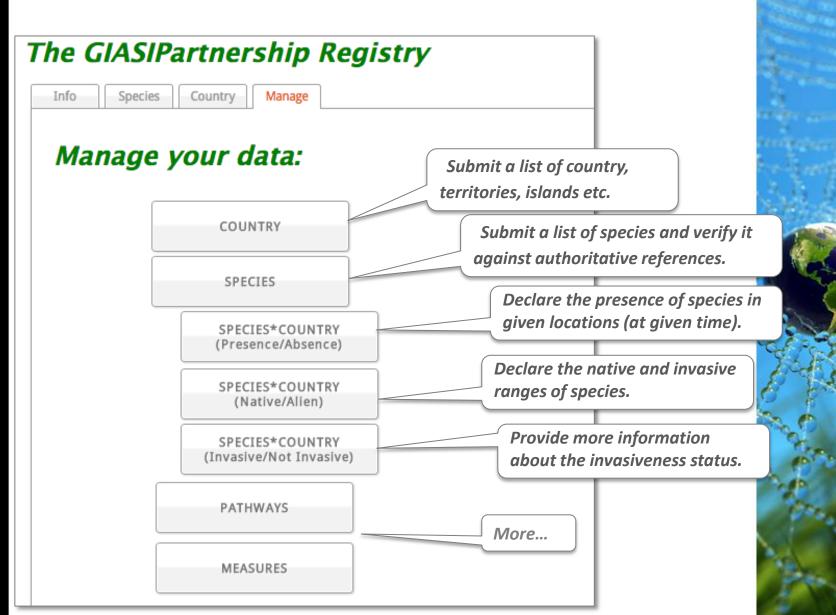
Species



How to submit data?









The GIASIPartnership Registry

Details: Kingdom Plantae Phylum Magnoliophyta Class Magnoliopsida Order Fabales Family Fabaceae Genus Acacia Acacia mearnsii Species ScientificName Acacia mearnsii De Wild.

Additional references:

Publisher

| Interim Register of Marine and Nonmarine Genera |
|---|
| GBIF Backbone Taxonomy |
| Integrated Taxonomic Information System |
| New Zealand Organisms Register |
| Prelude Medicinal Plants Database |
| The Catalogue of Life |
| New Zealand Plant Names Database |
| √ [|
| |

| Details: | |
|----------------|--------------------------|
| Kingdom | Plantae |
| Phylum | Magnoliophyta |
| Class | Magnoliopsida |
| Order | Fabales |
| Family | Fabaceae |
| Genus | Acacia |
| Species | Acacia mearnsii |
| ScientificName | Acacia mearnsii De Wild. |

Additional references:

| Publisher | Φ | Scientific Name | • |
|---|------|--------------------------|----------|
| Interim Register of Marine and Nonmarine Genera | | Acacia mearnsii De Wild. | A |
| GBIF Backbone Taxonomy | | Acacia mearnsii De Wild. | |
| Integrated Taxonomic Information System | | Acacia mearnsii De Wild. | |
| New Zealand Organisms Register | | Acacia mearnsii De Wild. | |
| Prelude Medicinal Plants Database | | Acacia mearnsii De Wild. | |
| The Catalogue of Life | | Acacia mearnsii De Wild. | |
| New Zealand Plant Names Database | | Acacia mearnsii De Wild. | |
| <u> </u> | | | ▼ |
| | 8 it | em(s) | |
| Dataset Title: GBIF Backbone Taxonomy | | | |

Vernacular names:

acacia negra (SPANISH), acácia negra (UNKNOWN), acacia noir (FRENCH), aci; 1/2 cia negra (PORTUGUESE), Australian acacia (UNKNOWN). Australische akazie (UNKNOWN), Barakatsi (KINYARWANDA), Barakatsi (KINYARWANDA), black wattle (UNKNOWN), black wattle (ENGLISH), black wattle (ENGLISH), Black wattle (ENGLISH), Black wattle (ENGLISH), Gerberakazie (GERMAN), green wattle (ENGLISH), late black wattle (ENGLISH), swartwattel (UNKNOWN), swartwattel (AFRIKAANS), tan wattle (ENGLISH).

A. mearnsii is native to Southeastern Australia and Tasmania, but has been introduced to North America, South America, Asia, Europe, Pacific and Indian Ocean islands, Africa, and New Zealand-Adair, R. (2002). Black Wattle: South Africa Manages Conflict of Interest. CABI Biocontrol News March 2002, Volume 23 No. 1. webPaiva, J. 1999. Acacia. In Talavera, S. Aedo, C, Castroviejo, S, Romero Zarco, C, Sáez, L, Salgueiro, F.J. & Velayos, (ed). Flora Iberica - Plantas Vasculares de la Península Ibérica e Islas Baleares. Vol.VII(I). Leguminosae. Real Jardín Botánico, CSIS. Madrid. ISBN 84-00-06221-3. pp. 11-25.Franco, J.A. 1971. Nova Flora de Portugal (Continente e Açores). Vol. 1. Franco, J.A. (Ed.). Lisboa.Tutin, T. G., Heywood, V.H., Burges, N.A., Moore, D.M., Valentine, D.H., Walters, S.M. & Webb, D.A. 1992. Flora Europaea. Vol.2 Rosaceae to Umbelliferae. (reprint). Cambridge University Press. Cambridge. ISBN. 0 521 06662 X pp. 84-851t has been introduced to numerous parts of the world, and in those areas is often used as a commercial source of tannin or a source of firewood for local communities. In areas where it has been introduced, it is often considered a weed, and is seen as threatening native habitats by competing with indigenous vegetation, replacing grass communities, reducing native biodiversity and increasing water loss from riparian zones. Found in tropical rainforests.

A. mearnsii produces copious numbers of small seeds that are not dispersed actively. The species may resprout from basal shoots following a fire.PIER, 2003. Pacific Island Ecosystems At Risk web It also generates numerous suckers that result in thickets consisting of clones. Seeds may remain viable for up to 50 years.2002: Alien Invader Plants

Acacia mearnsii is a fast-growing leguminous tree native to Australia. Common names for it include black wattle. Acácia-negra (Portuguese). Australian acacia. Australische Akazie (German). Swartwattel (Afrikaans).

Dataset Title:

GBIF Backbone Taxonomy

Australische akazie (UNKNOWN), Barakatsi (KINYARWANDA), Barakatsi (KINYARWANDA), black wattle (UNKNOWN), black wattle (ENGLISH), black wattle (ENGLISH), Black wattle (ENGLISH), Black wattle (ENGLISH), Gerberakazie (GERMAN), green wattle (ENGLISH), late black wattle (ENGLISH), swartwattel (UNKNOWN), swartwattel (AFRIKAANS), tan wattle (ENGLISH), uwatela (UNKNOWN), モリシマアカシア (IAPANESE)

A. mearnsii is native to Southeastern Australia and Tasmania, but has been introduced to North America, South America, Asia, Europe, Pacific and Indian Ocean islands, Africa, and New Zealand.Adair, R. (2002). Black Wattle: South Africa Manages Conflict of Interest. CABI Biocontrol News March 2002, Volume 23 No. 1. webPaiva, J. 1999. Acacia. In Talavera, S. Aedo, C, Castroviejo, S, Romero Zarco, C, Sáez, L, Salgueiro, F.J. & Velayos, (ed). Flora Iberica - Plantas Vasculares de la Península Ibérica e Islas Baleares. Vol.VII(I). Leguminosae. Real Jardín Botánico, CSIS. Madrid. ISBN 84-00-06221-3. pp. 11- 25.Franco, J.A. 1971. Nova Flora de Portugal (Continente e Açores). Vol. 1. Franco, J.A. (Ed.). Lisboa.Tutin, T. G., Heywood, V.H., Burges, N.A., Moore, D.M., Valentine, D.H., Walters, S.M. & Webb, D.A. 1992. Flora Europaea. Vol.2 Rosaceae to Umbelliferae. (reprint). Cambridge University Press. Cambridge. ISBN. 0 521 06662 X pp. 84-85It has been introduced to numerous parts of the world, and in those areas is often used as a commercial source of tannin or a source of firewood for local communities. In areas where it has been introduced, it is often considered a weed, and is seen as threatening native habitats by competing with indigenous vegetation, replacing grass communities, reducing native biodiversity and increasing water loss from riparian zones. Found in tropical rainforests.

A. mearnsii produces copious numbers of small seeds that are not dispersed actively. The species may resprout from basal shoots following a fire PIER, 2003, Pacific Island Ecosystems At Risk web It also generates

Australische akazie (UNKNOWN), Barakatsi (KINYARWANDA), Barakatsi (KINYARWANDA), black wattle (UNKNOWN), black wattle (ENGLISH), black wattle (ENGLISH), Black wattle (ENGLISH), Black wattle (ENGLISH), Gerberakazie (GERMAN), green wattle (ENGLISH), late black wattle (ENGLISH), swartwattel (UNKNOWN), swartwattel (AFRIKAANS), tan wattle (ENGLISH), uwatela (UNKNOWN), モリシマアカシア (JAPANESE), モリシマアカシア (JAPANESE), 黑荆 (CHINESE), 黑荆 (CHINESE),

In its native range A. mearnsii is a tree of tall woodland and forests in subtropical and warm temperate regions. In Africa the species grows in disturbed areas, range/grasslands, riparian zones, urban areas, water courses, and mesic habitats at an altitude of between 600-1700m. In Africa it grows in a range of climates including warm temperate dry climates and moist tropical climates. A. mearnsii is reported to tolerate an annual precipitation of between 6.6 – 22.8 dm, an annual mean temperature of 14.7 – 27.8°C, and a pH of 5.0 – 7.2.Duke, J. A. 1983. Acacia mearnsii. Handbook of Energy Crops. Unpublished. web A. mearnsii does not grow well on very dry and poor soils.Franco, J.A. 1943. Dendrologia Florestal. Lisboa.A. mearnsii plays an important role in the ecosystem in its native Australia. As a pioneer plant it quickly binds the erosion-prone soil following the bushfires that are common in the Australian wilderness. Like other leguminous plants, it fixes the atmospheric nitrogen in the soil. Other woodland species can rapidly utilise these increased nitrogen levels provided by the nodules of bacteria present in their expansive root systems. Hence they play a critical part in the natural regeneration of Australian bushland after fires.

Leuco-fisetinidin, a flavan-3,4-diol (leucoanthocyanidin) and a monomer of the condensed tannins called profisetinidins, can be extracted from the heartwood of A. mearnsii.

Émile Auguste Joseph De Wildeman described the black wattle in 1925. The species is named after American naturalist Edgar Alexander Mearns, who collected the type from a cultivated specimen in East Africa. Tame, Terry (June 2001): WattleWeb - Acacia mearnsii. Royal Botanic Gardens Sydney

Cultivada como ornamental y como planta tanífera, y localmente naturalizada; 0-200 m.

II-IV.

Next steps

- Develop data sharing agreements.
- Finalize testing of data upload/download with all existing partners.
- Decide on final platform to adopt.
- Integrate web services with Gateway and identified use-cases.
- Initiate data quality assessments.
- Initiate data mobilization for key taxa/regions (e.g. Africa)







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