



THE INDUSTRIAL SCALE PRODUCTION OF BIOACTIVE HONEY

THE M.A.S.S. PARTNERSHIP

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| | Application number | Title | Applicant(s) | Inventor(s) | Filing date | Application status | |
|---|----------------------------|---|---------------|---------------|-------------|--------------------|--------------------------|
| 1 | 2018317497 | Bioactive honey production environment and method | Munday, David | Munday, David | 2018-08-14 | GRANTED | <input type="checkbox"/> |

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THE PATENT DOES NOT CLAIM RIGHTS TO HONEY , BEES, or ANY NATURAL FEATURE.

THE PATENT CLAIMS RIGHTS TO AN INNOVATION.

THE PATENT IS : BIOACTIVE HONEY PRODUCTION METHOD AND ENVIRONMENT.

THE INNOVATION IS THE PRODUCTION METHOD AND ENVIRONMENT.

IT IS THE INNOVATION THAT IS PATENTED.

THE PATENT UTILISES VARIOUS PLANT SPECIES IN AN INNOVATIVE PERMACULTURE TO MAXIMISE QUANTITY AND BIOACTIVITY OF THE HONEY.

THE INNOVATION IS WELL SUITED TO MAXIMISING THE PRODUCTION OF THE PERMACULTURE PLANT SPECIES i.e. COFFEE.

THE OUTCOME IS AN INCREASE IN THE COFFEE BEAN PRODUCTION AND A HIGHLY VALUABLE HONEY.

WHY USE A PATENT ?

PATENTS PROVIDE A LIMITED TERM MONOPOLY, SO IT THEREFORE PROTECTS THOSE ENTERPRISES THAT ACQUIRE A LICENCE UNDER IT LEGAL AND CONSEQUENT COMMERCIAL PROTECTION FROM UNLICENCED COMPETITORS (i.e. THOSE WHO MAY TRY AND EMULATE THE PROCESS AND FARM LAYOUT THAT ARE CLAIMED) ;

A PATENT GIVES THOSE WHO ARE LICENCED A COMMERCIAL HEAD START OVER THE UNLICENCED ; (THE UNLICENCED WILL BE ACTING ILLEGALLY BY COPYING THE PATENTED PROCESS / FARMING CELL) ;

THE PATENT CAN BE LICENCED AND SUB-LICENCED. FOR EXAMPLE, A MASTER LICENCE FOR PNG (OR A PART OF PNG) CAN BE GRANTED TO A PERSON / ORGANISATION **A** , WHO CAN THEN GRANT SUB-LICENCES TO PERSONS / ORGANISATIONS **B,C,D,E** AND RECEIVE ROYALTIES FOR THE USE OF THE PATENTED PROCESS / FARM CELL DESIGNS.

OF COURSE, THE PATENT OWNER WOULD RECEIVE ROYALTIES OR A ONCE OFF FEE FROM THE MASTER LICENCEE. THE AMOUNT WOULD BE NEGOTIATED ACCORDING TO PERCEIVED VALUE.

BIO-INNOVATIONS MUST BE PROTECTED. BY ASSURING PATENT PROTECTION, THE BENEFITS WILL GO TO THE GOVERNMENT AND THE PEOPLE.

GOVERNMENT AND PRIVATE INVOLVEMENT, SO THAT NO COMMUNITY IS LEFT BEHIND.

IT IS PROPOSED BY THE MASS PARTNERSHIP THAT THE PNG GOVERNMENT PURCHASES A LICENCE FOR USE OF THE PATENT THROUGHOUT PNG.

THIS RELIEVES THE INDUSTRY OF THE INITIAL COST AND SOLVES THE ISSUE OF SMALL LANDHOLDER EXCLUSION. .

THE INDUSTRY WOULD PAY A ROYALTY TO THE MASS PARTNERSHIP ONCE PROFIT IS GENERATED FROM THE SALE OF BIOACTIVE HONEY AND ONCE COFFEE BEAN PRODUCTION HAS INCREASED BY 25 %.

THE MASS PARTNERSHIP WOULD PROVIDE DESIGN PRINCIPLES AND PATENT LEGAL ADVICE FOR THE DURATION OF THE LICENCE.



THE NEW GUINEA HIGHLANDS HAVE MANY FAVOURABLE
FEATURES FOR THE IMPLEMENTATION OF THE PATENT.

THE PATENT ALLOWS PNG TO MARKEDLY INCREASE ITS COFFEE
PRODUCTION, DEVELOP A BIOACTIVE HONEY INDUSTRY AND TO INITIATE
A BIO~PHARMACOLOGY INDUSTRY.



PERMACULTURES WORK FROM THE SOIL UP.

ACIDIC SOILS ARE THE BASIS OF THE PROPOSED PERMACULTURE.

COFFEE, PYRETHRUM AND TEA TREE ALL PREFER ACIDIC BROWN HUMIC SOILS.

THE SOILS OF THE EASTERN HIGHLANDS ARE IDEAL.

PNG HIGHLANDS :

FERTILE SOIL

PLENTIFUL RAINFALL

ESTABLISHED COFFEE PLANTATIONS

UNDISTURBED RAINFOREST



TWO OR MORE HIGHLY VALUABLE CROPS FROM THE SAME LAND.

COFFEE. 50% increase in yield

PYRETHRUM

TABLE HONEY

BIOACTIVE HONEY

BEE VENOM

CARBON CAPTURE

MEDICAL BIO~INNOVATION. ~ 2nd PATENT

IN 2019 , FORMER AGRICULTURE AND LIVESTOCK SECRETARY MATTHEW KANUA SAID :

“ THERE WAS A NEED FOR
INTEGRATION, INCREASED MIXED FARMING, COFFEE INTEGRATED WITH FOOD CROPS
AND OTHER MATTERS “

THE PATENT PERMACULTURE INNOVATION PROVIDES THE ABOVE .

CONSIDER THESE GLOBAL MARKET VALUES :

| | |
|------------------|----------------------------|
| TABLE HONEY | WORTH 6.6 BILLION 2017 |
| BIOACTIVE HONEY. | WORTH 14.2 BILLION BY 2026 |
| COFFEE. | WORTH 466 BILLION 2020 |

CONSIDER ALSO THAT THE PATENT PERMACULTURE IS UTILISED TO INCREASE COFFEE BEAN YIELDS BY 50%

PERMACULTURE



PYRETHRUM

1. CASH CROP 2. PROTECTS THE BEE POPULATION.



RUBIACEAE

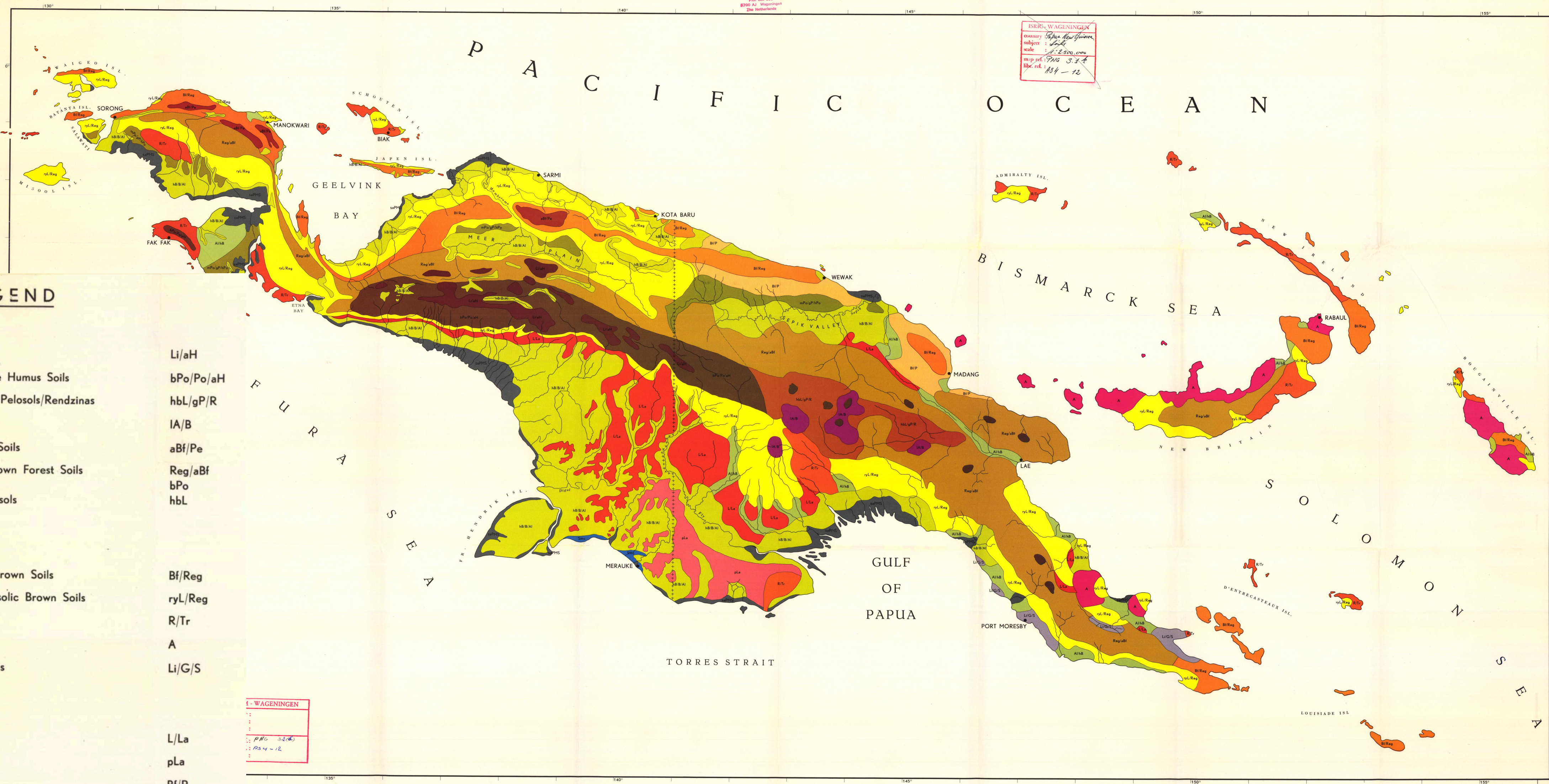
1. CASH CROP 2. YIELD DOUBLED BY INTENSE BEE POLLINATION



LEPTOSPERMUM

1. CASH CROP ~. PROTEINS FOR BIOACTIVE HONEY

SOIL MAP OF NEW GUINEA



LEGEND

HIGH MOUNTAINS

- Lithosolics/Alpine Humus Soils
- Brown Podzolics/Podzols/Alpine Humus Soils
- Humic Brown Latosols/Gleyed Pelosols/Rendzinas
- Latosolic Andosols/Bog Soils
- Acid Brown Forest Soils/Peat Soils
- W E Regosolic Brown Soils/Acid Brown Forest Soils
W included Brown Podzolics
E included Humic Brown Latosols

Li/aH
bPo/Po/aH
hbL/gP/R
IA/B
aBf/Pe
Reg/aBf
bPo
hbL

LOW MOUNTAINS AND HILLS

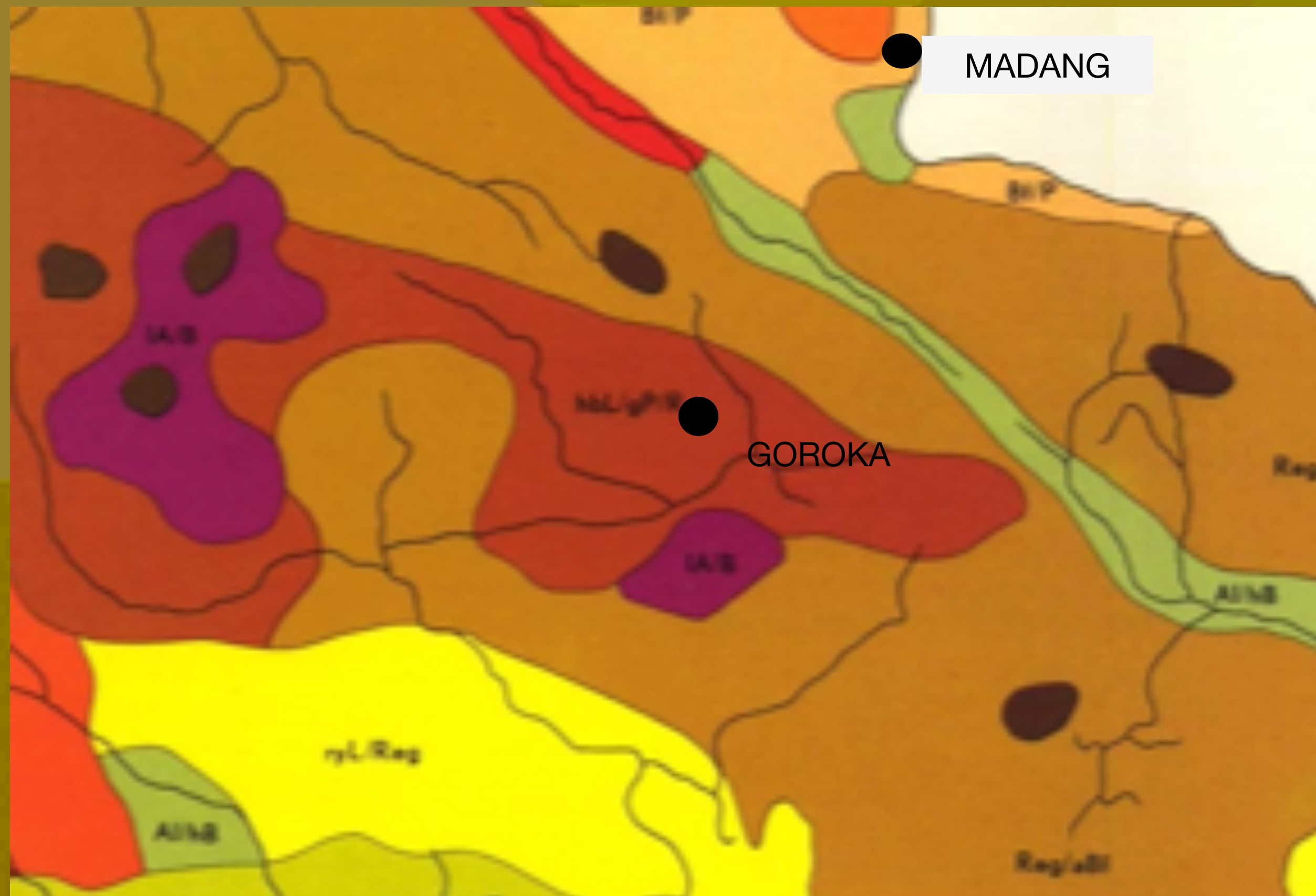
- Brown Forest Soils/Regosolic Brown Soils
- Red and Yellow Latosols/Regosolic Brown Soils
- Rendzinas/Terra Rossas
- Andosols
- Lithosolics/Grumosols/Solonetzcics

Bf/Reg
ryL/Reg
R/Tr
A
Li/G/S

PLAINS AND VALLEYS

- Latosolics/Lateritics
- Podzolic Lateritics
- Brown Forest Soils/Pelosols
- Meadow Podzolics/Gleyed Pelosols/Hydro-Podzolics
- Alluvial Soils/Half Bog Soils
- Half Bog Soils/Bog Soils/Alluvial Soils (including Mountain Valleys)
- Solonetzcic Marine Clays
- Saline Peats, Muds and Sands

L/La
pLa
Bf/P
mPo/gP/hPo
Al/hB
hB/B/Al
Smc
saPMS



| HIGH MOUNTAINS | | pH |
|---|--|------------|
|  | Lithosolics/Alpine Humus Soils | 5.8 |
|  | Brown Podzolics/Podzols/Alpine Humus Soils | 3.5 to 4.5 |
|  | Humic Brown Latosols/Gleyed Pelosols/Rendzinas | 5.8 |
|  | Latosolic Andosols/Bog Soils | 5.2 |
|  | Acid Brown Forest Soils/Peat Soils | 5 to 6.5 |
|  | Regosolic Brown Soils/Acid Brown Forest Soils | |
| | W included Brown Podzolics | |
| | E included Humic Brown Latosols | |

THE ACID SOILS OF THE EASTERN HIGHLANDS

PYRETHRUM , COFFEE and TEA TREE THRIVE IN ACID SOIL.

pH 5 to 6.5

pH 5 to 6

pH 6 to 7



PAPUA NEW GUINEA BIO~PHARMACEUTICALS

PREPOSITIONING FOR FUTURE DEVELOPMENTS

BIO~PHARMACEUTICALS

SECOND PATENT

THE MASS PARTNERSHIP IS CURRENTLY DEVELOPING A SECOND PATENT INVOLVING BIOACTIVE HONEY AND THE SEARCH FOR NEW ANTIBIOTICS.

THE RAINFORESTS OF PNG ARE IDEAL FOR THE ANTIBIOTIC SEARCH.

PAPUA NEW GUINEA, THANKS TO ITS TROPICAL RAINFORESTS, IS WELL PLACED TO PREPOSITION ITSELF FOR THE EXPLOITATION OF BIO~PHARMACEUTICALS.



BACKGROUND : ~ THE FUTURE OF BIOACTIVE HONEY

Mass gatherings, environmental destruction, and misuse of medicines are contributing to the rise of superbugs, which have the potential to kill approximately 10 million people annually by 2050, the United Nations warns.

As a result of industrialisation, bacteria, parasites, viruses and even fungi are becoming increasingly resistant to antimicrobials, meaning some mild infections can no longer be treated.
