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Read MGR 12/17/70

Amembassy RIO DE JANEIRO

November 18, 1970

Brazil's New Program of Goals and Bases -- Projects

Transmitted as an enclosure to this airgram is a list of projects for the period 1970-1973 which appear in a GOB document entitled "Goals and Bases for Government Action" (Metas e Bases para a Acao de Governo). The list of projects contains some duplication due to overlapping categories -- e.g. Industrial Development and Regional Development. Expenditure figures in 1970 cruzeiros (Cr\$4.85 - US\$1.00) are included wherever given.

CHARGE
DCM
MINECON
ADOM
ECON
USAID-10
MINATT
AGATT
LABATT
E/COML-30
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LIST OF GOB PROJECTS (with probable implementation during period
1970/1973 - at 1970 costs)

<u>PROJECT</u>	<u>Value in Cr\$ (millions)</u>
<u>EDUCATION</u>	
1. Elementary Education - Federal Contribution	110
2. National Program for Vocational Schools	400
3. Equipment for Schools of Higher Learning	250
4. Completion of First Stage of "Campus" of Advanced Centers (for UFRJ)	250
5. Operation-Productivity, in higher education	20
6. Regional Post Graduate Centers	350
7. New National Program for teaching of Adults	110
8. Expansion of intensive labor training programs	64
9. Program for the increase in full-time teachers in higher education	500
10. Plan for career and improvement of compensation for elementary and secondary teaching in public and private systems	400

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EDUCATION

- | | | |
|--------|---|-----|
| 11. | Program for Monitors | 25 |
| 12. | Training of teachers for elementary, secondary, and higher education | 140 |
| 13. | Basic Book Program for advanced education (Graduate and Post-Graduate) | |
| 14/15. | Student Assistance Programs to increase opportunities for informal and formal education | 500 |
| 16. | School-Enterprise-Government Projects (including students in government development programs) | |
| 17. | Advanced technology education system | |
| 18. | Farm Schools Program | |
| 19. | Integration of the universities in the communities | |
| 20. | Incentives for the Development of Short Duration Careers | |

HEALTH

- | | | |
|----|---------------------------------------|-----|
| 1. | Erradication of Endemic Diseases | 330 |
| 2. | Integration of Public Health Services | |
| 3. | Maternal and Child Care Program | |

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HEALTH

4. Low Cost Medication
5. Fight against Environmental Pollution

SANITATION

6. Financing of Sanitation Projects
7. Water Supply and Sewage under the National
Department of Sanitary Works (DNOS) 495
8. Water Supply 160
9. Erosion and Flood Control

AGRICULTURE AND SUPPLY

I - Technological Development. Use of Modern Implements

1. Agriculture Mechanization Program 990
2. National Fertilizer Industry
3. New Research and Experiment Program 240
4. Improved Seeds 180
5. Rural Extension System 160

II - National Cattle Husbandry Program

6. Development of Cattle Breeding for
Beef in Central-South Region 315
7. Development of Cattle Breeding for
Beef in East Region 225

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AGRICULTURE AND SUPPLY

- | | |
|--|-----|
| 8) Fight against Hoof and Mouth Disease | 119 |
| 9) Modernization of Production and Distribution in Principal Dairy Areas | 145 |
| 10) Construction of Fishing Terminals | 160 |

III - Agricultural Infra-Structure

- | | |
|------------------------------|-----|
| 11) National Irrigation Plan | 506 |
| 12) Rural Electrification | 280 |
| 13) Rural Roads System | 150 |

IV - Area Expansion. Improved Land Use.

- | | |
|---|-----|
| 14) Agrarian Reform | 410 |
| 15) Colonization Program. Occupation of New Areas | |

V - Forestry Development

- | | |
|---------------------------|-------|
| 16) Reforestation Program | 1,500 |
|---------------------------|-------|

VI - Modernization of Supply System

- | | |
|------------------------------------|-----|
| 17) System of Distribution Centers | 350 |
| 18) Intermediate Warehousing | 340 |
| 19) Port Warehouses and Silos | 75 |

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SCIENTIFIC AND TECHNOLOGICAL DEVELOPMENT AREAS:Group I

1. Increase in Brazilian Scientific and Technological Personnel
2. Implementation of full-time Employment System for Research Personnel
3. Intensive Post-Graduate Program in Brazil and Abroad
4. Regional Post-Graduate Centers
5. Improved Use of the Brazilian Academy of Sciences
6. Scientific and Technological Information System
7. Food Technology
8. Research in the Physical Sciences
9. Research in Natural Organic Products
10. Intensification of Scientific Exchange within the Country and with Foreign Nations
11. Research in Oceanography and Geophysical Studies of the Bottom of the Sea
12. Research on Bituminous Shale
13. Research on Araxa Apatites

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SCIENTIFIC AND TECHNOLOGICAL DEVELOPMENT AREAS:

- 14) Semi-conductors Laboratory
- 15) Research on Permeation of Gases
- 16) Research on Polymers
- 17) Research Center of Applied Electronics
for Biology
- 18) Biological techniques for combatting
disease
- 19) Geochemical study of Soil Formations
Under Tropical Conditions
- 20) Campinas Agricultural Institute:
Research Program
- 21) Research on Soil Fertility
- 22) Formation of Pastures
- 23) Studies on Human Nutrition

Group II:

- 1) Nuclear Program
 - 1.1 Reactors and Nuclear Physics Technology
 - 1.2 Research on Uranium resources
 - 1.3 Installation of the First Nuclear Power Plant
 - 1.4 Development of Nuclear Energy for Use in
Agriculture
- 2) Space Program

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INFRA-STRUCTURE

1.1 - POWER

Electric Power:

1) Installation of the First Nuclear Power Plant - CNEN/ELETRONUC	236 *
2) Construction of the Ilha Solteira Power Plant	920
3) Completion of Jupia Power Plant	90
4) Completion of Xavantes Power Plant	27
5) Completion of the Promissão Power Plant	280
6) Completion of First Stage of Jaguará Power Plant	68
7) Construction of Volta Grande Power Plant	173
8) Construction of Porto Colômbia Power Plant	315
9) Construction of São Simão Power Plant	36
10) Construction of Marimbondo Power Plant	311
11) Construction of Itumbiara Power Plant	
12) Construction of Mascarenhas Power Plant	
13) Increase in the Generating Capacity of Capivari thermic power plant (SOTELCA)	

*Figure is unduly low. Project is estimated to cost over US\$150 million

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INFRA-STRUCTURE

14)	Completion of Capivari-Cachoeira Power Plant	
15)	Completion of Passo Fundo Power Plant	113
16)	Completion of Passo Real Power Plant	147
17)	Construction of Salto Osório Power Plant	239
18)	Construction of Itaúba Power Plant	43
19)	Expansion of Generating Capacity and Distribution System of Cia. Hidreletrica do São Francisco	241
20)	Completion of the Humberto de Alencar Castelo Branco Power Plant and Expansion of Cia. Hidreletrico de Boa Esperança Distribution Lines - COHEBE	18
21)	Utilization of the Hydroelectric Potential of Orós and Banabuiu Reservoirs	
22)	Integration of the Federal District into the Central South Electric System	72
23)	Power Supply to the Development Nuclei of the Amazon Region	277
Oil and Shale:		
1)	Exploitation of the Submarine Platform	829
2)	Refinery in the Interior of São Paulo (Planalto Paulista)	385

INFRA-STRUCTURE

- | | |
|--|-----|
| 3) Modernization and Expansion of President Bernardes Refinery | 264 |
| 4) Expansion of the Duque de Caxias Refinery | 155 |
| 5) Expansion of the Gabriel Passos Refinery | |
| 6) Expansion of the Alberto Pascolini Refinery | |
| 7) Shale Pilot Plant at Irati | 80 |

Coal:

- | | |
|---|----|
| 1) Mechanization of the Santa Catarina Coal Mines | 30 |
|---|----|

INFRA-STRUCTURE1.2 - TRANSPORTATION

- | | |
|--|-------|
| 1) Transamazon and Cuiaba-Santarém Highways (First Phase) | 320 |
| 2) Completion of the Basic Northeastern Highway System | 928 |
| 3) Paved Highways between Curitiba, Florianopolis and Porto Alegre | 265 |
| 4) National Highway Programs with High Economic Priority | 2,900 |
| 5) International Highway Connections | 440 |
| 6) Rio-Niteroi Bridge | 361 |

INFRA-STRUCTURE

7. Apucarana-Ponta Grossa Connection	61
8. Rio-São Paulo Railroad	160
9. General Rebuilding and Improving of Existing Railroads	271
10. Purchase of Rolling Stock and Locomotives	420
Ports and Navigation (Maritime and River):	
11. Specialized Terminals	318
12. Dredging	189
13. Expansion of Port Facilities	176
14. Re-equipment and Modernization of Ocean going Merchant Marine Vessels	1,367
15. Re-equipment and Modernization of Coastal Merchant Marine Vessels	195
Air Transportation:	
16. International Airport at Galeão	523
17. Flight Protection Equipment	315
18. International Airports at São Paulo, Manaus and Brasília	398
19. Other Airports	

INFRA-STRUCTURE1.3 - COMMUNICATIONS

1) National Telecommunications System	1,423
2) Long-Distance Communications Network	232
3) International Telecommunications System	49
4) Urban Telephone System	
5) Modernization of Postal/Telegraphic System	

INDUSTRIAL, MINING, TRADE AND TOURISM DEVELOPMENT:

Industrial:

Steel - Laminated Products

1. Laminated, flat - CSN-USIMINAS-COSIPA	2,903
2. Laminated, non-flat	1,790

Chemicals:

1. Petroquisa Program	350
2. Production of Olefines and Aromatics (Petroquima, Uniao S.A. Project)	390
3. Production of Sulphuric Acid (Ind. Carboquímica Catarinense Project)	85
4. Production of Caustic Soda (Salgema Project)	230

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INDUSTRIAL, MINING, TRADE AND TOURISM DEVELOPMENT:

5. Production of Acrylonitrile, Acrylic Fibers (FISIBA Project)	120
6. Production of Polypropene (Polibrasil S.A. Ind. e Com. Project-Bahia)	88
7. Production of Octane & Butane (Cia. de Indústrias Químicas do Nordeste-Project) Bahia	48
8. Exportation of Cellulose and Wood Chips (Cia. Vale do Rio Doce and Others project)	1,136
9. Production of Pistons, Bearings, Bushings, and Retainers (Metal-Leve S.A. Project) - São Paulo	30
10. Production of die stamp, devices, cutting tools and dies for castings (Chrysler do Brasil project) São Paulo	23
11. Production of automotive vehicles (Volkswagon do Brasil Ind. e Com. de Automoveis project) São Paulo	
12. Production of Cement Projects: Expansion of Cia. de Cimento Portland Barroso - Minas Gerais	80
Implementation of Camargo Corrêa Industrial S.A. - Apías, São Paulo	110
Cimento Tocantins S.A. - Brasília, D.F.	58

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INDUSTRIAL, MINING, TRADE AND TOURISM DEVELOPMENT:

13. Production of Polyester and Acrylic
Fibers and yarns for Textile Use
(SAFROM S.A. - Industrias Bras. de
Fibras - Aratú, Bahia) implementation
program 135
14. Production of component parts of air-
craft motors (Project under considera-
tion)

Other scheduled undertakings:

1. Production of Potassium (Fertilizer) 450
2. Production of Ammonium 100
3. Petrochemical Center of Bahia
4. Production of Refined Copper

Mining and Mineral Exploration

Mining:

1. Mining of Iron and agglomerates 2,500
2. Mining of Cassiterite 100
3. Mining of Asbestos 41
4. Mining of Bauxite 100

Exploration for Mineral Resources

5. Exploration for Minerals for the Construction
Industry 7.7

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6. Prospecting for Iron Ore (Amazon)	29.6
7. Geological mapping of Goias	4.7
8. Geological mapping of Bahia	6.8
9. Hydrology of the Amazon Basin	7

Trade:

1. Continuation of efforts for efficient commercialization of industrial & agricultural products.
2. Strengthening of small & medium enterprises.
3. Give support to new phase of export promotion.

Tourism:

1. Increase Brazil's international participation in chain of tourism.
2. Intensification of domestic tourism.
3. Review criteria for approval of fiscal incentives for tourism projects.

SOCIAL INFRA-STRUCTURE

Housing, Labor and Social Welfare:

Housing:

- | | |
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| 1. Financing of housing in rural areas | 145 |
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SOCIAL INFRA-STRUCTURE

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| 2. Financing of low-cost housing in urban areas for workers earning at least the minimum salary | 1,420 |
| 3. Financing of low-cost housing in urban areas for workers earning at least 1.6 times the minimum salary | 2,915 |
| 4. Financing of middle class housing in urban areas | 570 |
| 5. Financing of housing through Brazilian lending and savings systems | |
| 6. Financing of construction material for housing | |

Labor and Social Welfare:

1. Medication for Associates under Social Security
2. Middle level scholarships
3. Technical and social education
4. Extension of social welfare program to rural laborers not yet reached by existing programs
5. Syndicates' Literacy Programs
6. Organization of cooperatives by Syndicates and Higher Level Labor Organizations
7. Reform of the Government Employees Welfare Institute

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INDUSTRIAL, MINING, TRADE AND TOURISM DEVELOPMENT:

8. Special training of skilled and technical labor
9. Modernization and Expansion of the Ministry of Labor
10. Experimental program to send technicians to the interior of Brazil

Regional and Urban Development Projects

General

1. National Integration Program - Development of Amazon and Northeast
2. Rondon Project - Mobilization of Youth for Development
3. Northwest Minas Gerais Program - Development of Minas Gerais through Colonization

Northeast

4. Northeastern Irrigation Plan
5. Supply Centers in Recife, Salvador, Fortaleza, Aracaju, Maceio 70
6. Recife Sugar Terminal 40
7. Rationalization of the Sugar Cane Industry 120
8. Cattle Breeding and other Agricultural Projects of the Banco do Nordeste do Brasil with Foreign Resources 250

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INDUSTRIAL, MINING, TRADE AND TOURISM DEVELOPMENT:

9. Rural Electrification Plan	85
Industry and Mining:	
10. Usina Siderurgica da Bahia USIBA	190
11. Petrochemical Projects in Bahia	635
12. Caustic Soda (Sal-gema, Alagoas)	230
13. Ammonium Project	100
14. Copper Project	320
15. Production of Fibers & Polyester and Acrylic Yarns	135
16. Potassium Project of Sergipe	450
Power, Transportation, Communications	
17. Moxotó and Paulo Afonso IV Power Plants	241
18. Expansion of COHEBE	18
19. Exploitation and Production of Petroleum	2,240
20. Consolidation of Railroad System of the Northeast	928
21. Microwave Network in the Northeast Belo Horizonte-Racife-Fortaleza; Fortaleza-São Luis-Belém	100

INDUSTRIAL, MINING, TRADE AND TOURISM DEVELOPMENT:

Education, Health, Sanitation, Housing:

22. Program for Secondary Vocational Schools	35
23. Elementary Schools	25
24. Sanitation Program (Water & Sewage)	250
25. Housing	150

AMAZON:

26. National Integration Program Colonization	
27. Installation of the Amazon Telecommunication System	
28. Electric Power Supply to Development Nuclei of the Region	
29. Supply Center of Belém	
30. Amazon Rubber Project (PROHEVEA)	
31. Improvement of Port Facilities of the Region	
32. Construction of a network of airports of the COMARA	
33. Use of Bauxite found in Baixo Rio Trombetas Region	
34. Use of Manganese from Amapá	

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INDUSTRIAL, MINING, TRADE AND TOURISM DEVELOPMENT:

35. Use of Iron from Serra dos Carajas (Pará) and Rio Jatagui (Amazon) Regions
36. Use of Cassiterite in Rondônia
37. Hydrology of Amazon Basin
38. Energy Surveys in the Amazon and Northeast

JUSTICE. FOREIGN AFFAIRS:

Justice:

1. Organization of new Conciliation and Judgment Councils in Labor Courts
2. Consolidation of lower Federal Courts and approval of their Organic Legislation

Foreign Affairs:

1. Better use of Brazil's Economic Potential in World Market
2. Organization of a Data Processing Center as an Instrument for the Expansion of Brazilian Exports
3. Modernization of Itamaraty's Structure and Working Methods

900

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JUSTICE. FOREIGN AFFAIRS:

4. Gathering and Dissemination of Technical-Scientific Information
5. Organization of the Alexandre Gusmão Foundation
6. Training of Diplomatic Personnel at Middle and Upper Levels

ARMED FORCES - Principal Projects:

General:

1. Armed Forces Hospital

Navy:

2. Naval Construction
3. Construction of Naval Bases
4. Other Projects

Army:

5. Army re-equipment Program

Air Force:

6. Consolidation of the Brazilian Aircraft Industry
7. Research in the Aircraft Industry:
 - 7.1 Technology of Strategic Metals
 - 7.2 Specialized Laboratories

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ARMED FORCES - Principal Projects:

8. Administrative Reform of the Ministry of Aeronautics
9. Re-equipment of Brazilian Air Force (FAB)
10. Procurement of Aircraft Supplies
11. Installation of Units in Center-West and Amazon Regions
12. Construction of Air Force Academy
13. Basic Research and Studies in Space Sciences