



RISCOS GEOLÓGICOS

SEMINÁRIO DE GEOLOGIA AMBIENTAL

HELOISA VITAL DOMINGOS
NICOLLI ALBUQUERQUE DE CARVALHO

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INTRODUÇÃO

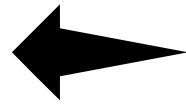
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**CONCEITOS EM GEOLOGIA
DE ENGENHARIA**

3

**PROCESSOS GEOLÓGICOS
NO BRASIL**

INTRODUÇÃO



Processos de geodinâmica
interna e externa



Mas o que é risco geológico? 



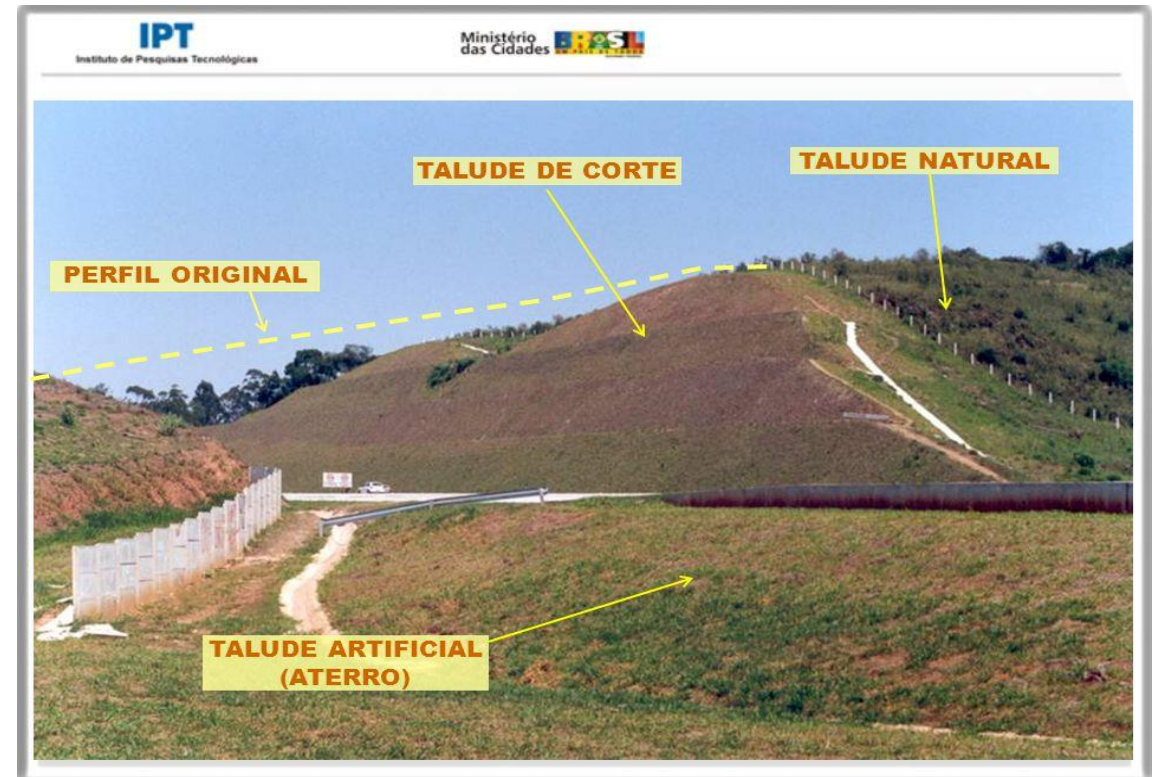
INTRODUÇÃO

**Processos geológicos
são naturais**

**Uso e ocupação do
solo**



Intensificação

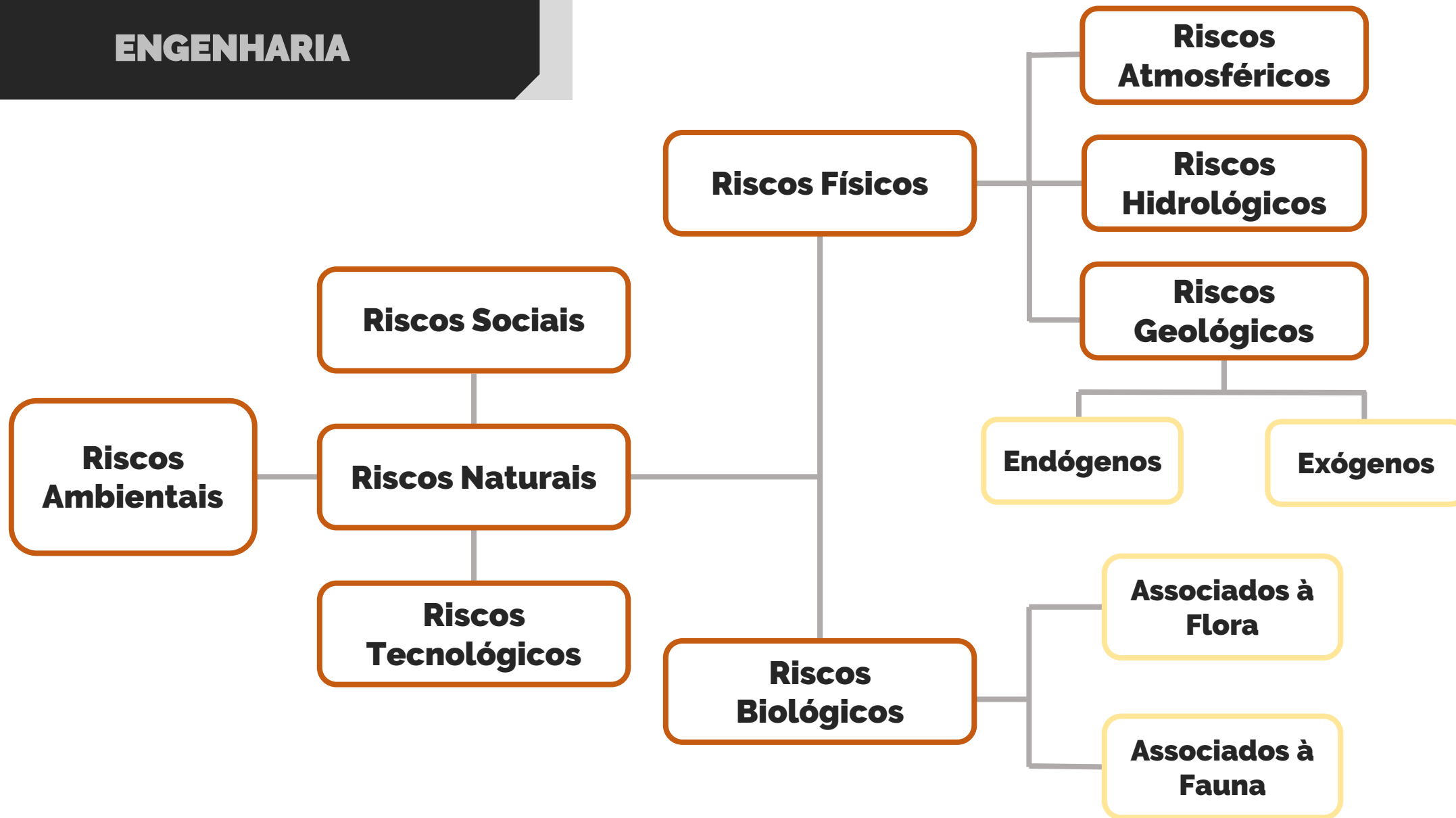


ACIDENTE

SUSCETIBILIDADE

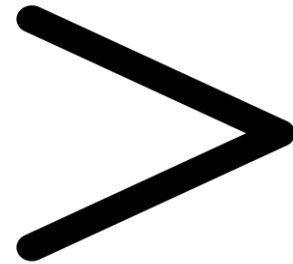
EVENTO

RISCO





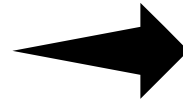
Processos
dinâmicos
exógenos



Processos
dinâmicos
endógenos

3

PROCESSOS GEOLÓGICOS NO BRASIL

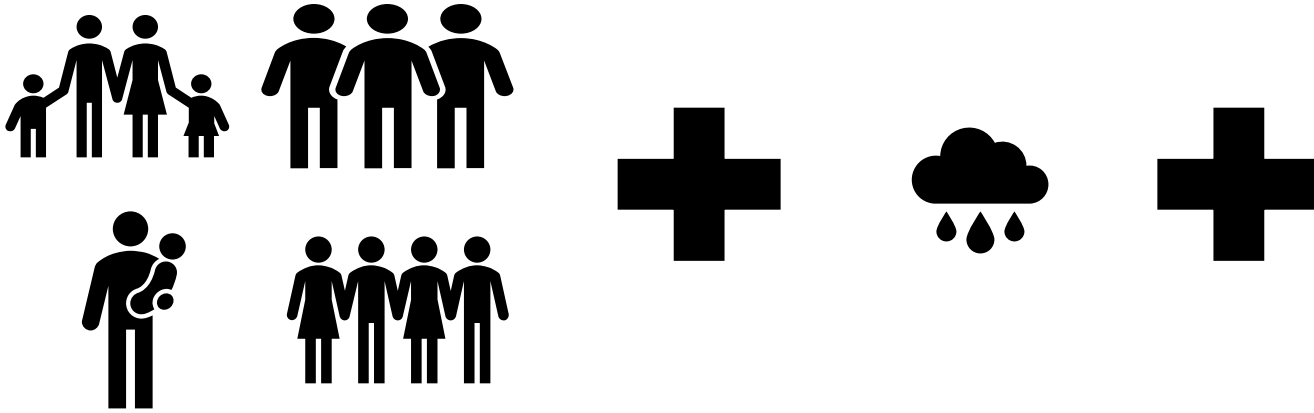


Movimentos de Massa



3

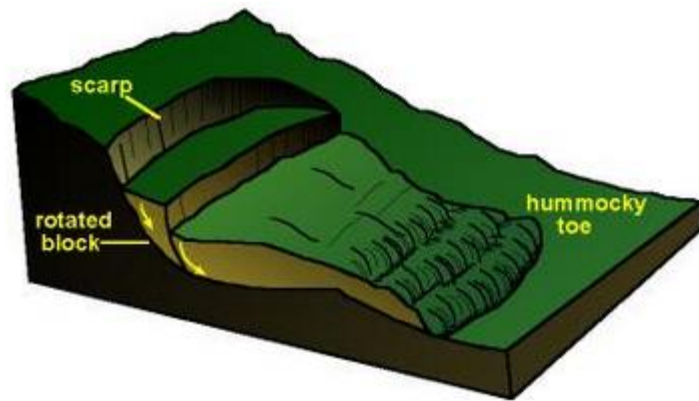
PROCESSOS GEOLÓGICOS NO BRASIL



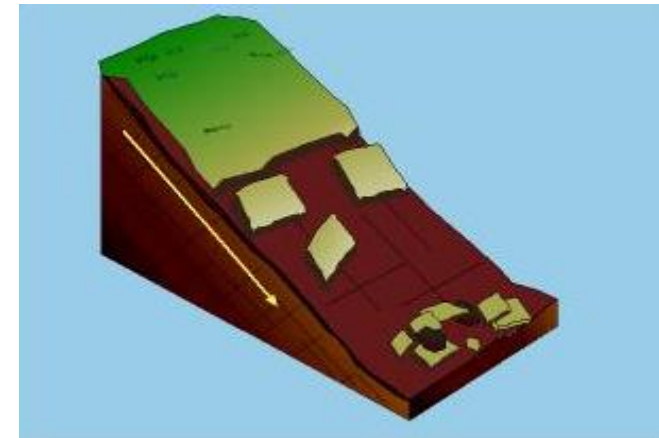
TIPOS DE MOVIMENTOS DE MASSA

QUEDAS/TOMBAMENTOS/ROLAMENTOS

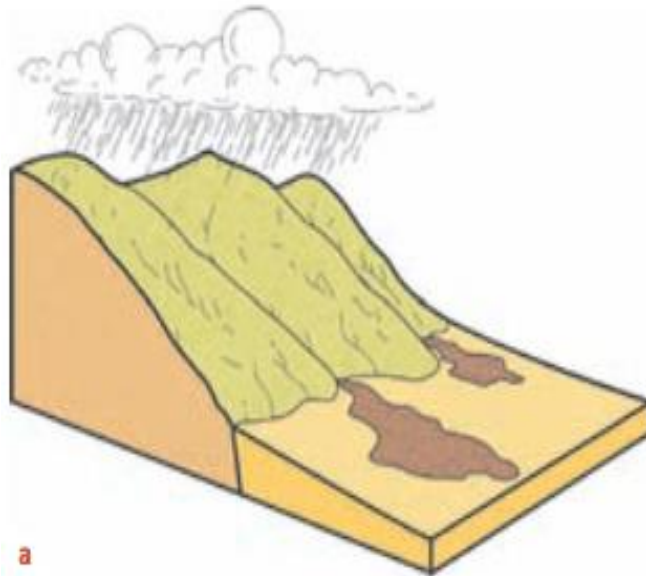


TIPOS DE MOVIMENTOS DE MASSA**ESCORREGAMENTOS**

Movimento rotacional

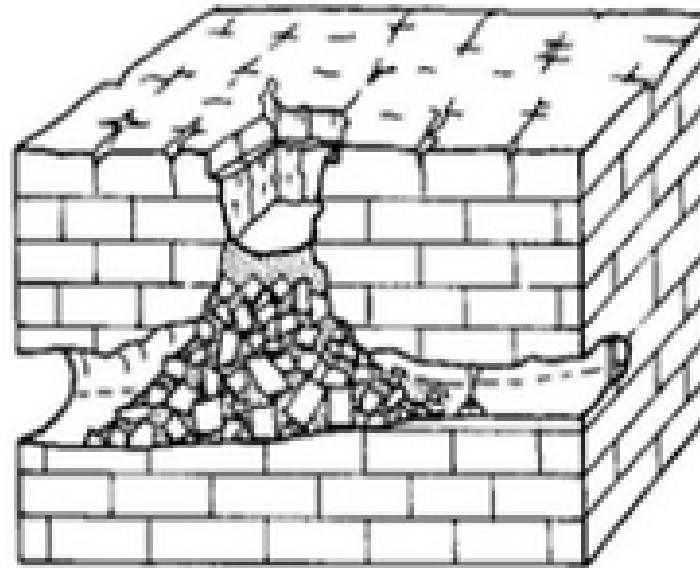


Movimento translacional

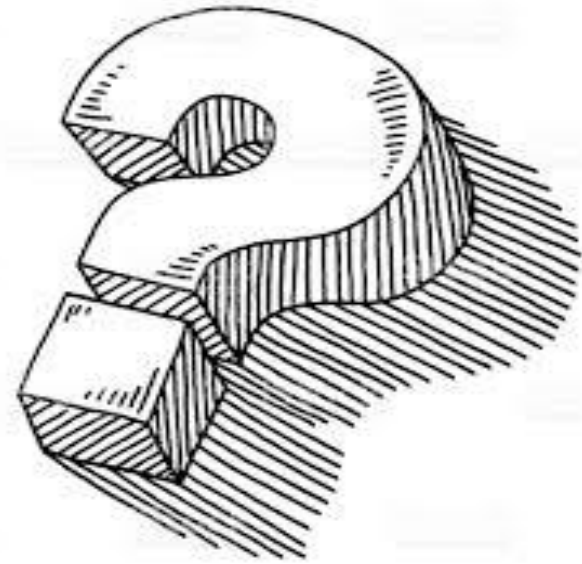
TIPOS DE MOVIMENTOS DE MASSA**FLUXO DE DETRITOS E LAMA**

TIPOS DE MOVIMENTOS DE MASSA

SUBSIDÊNCIA E COLAPSOS



**COMO
LIDAR
COM
ESSAS
ÁREAS**

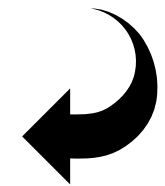
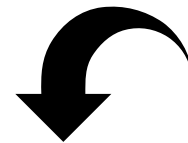


**Processo de urbanização
acelerado e desordenado**



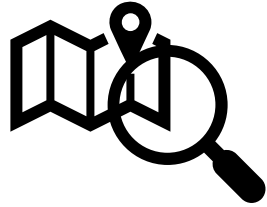
Ocupação de
áreas de risco
geológico

Necessidade?

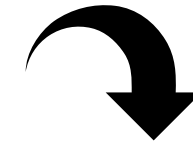
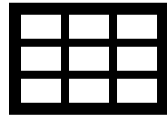


**Gestão Territorial
Urbana**

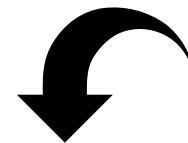
Levantamento de informações



Boletim Cadastral

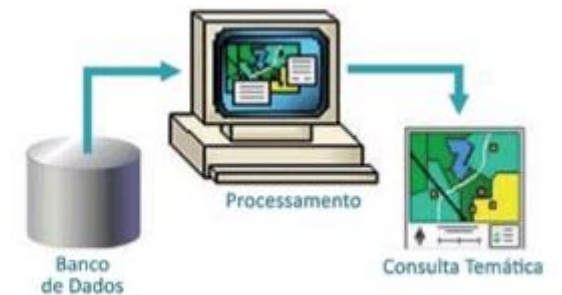
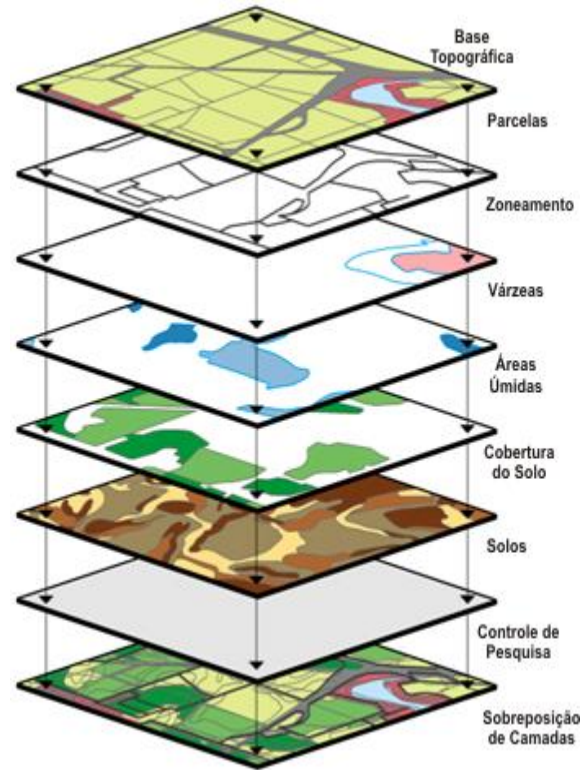
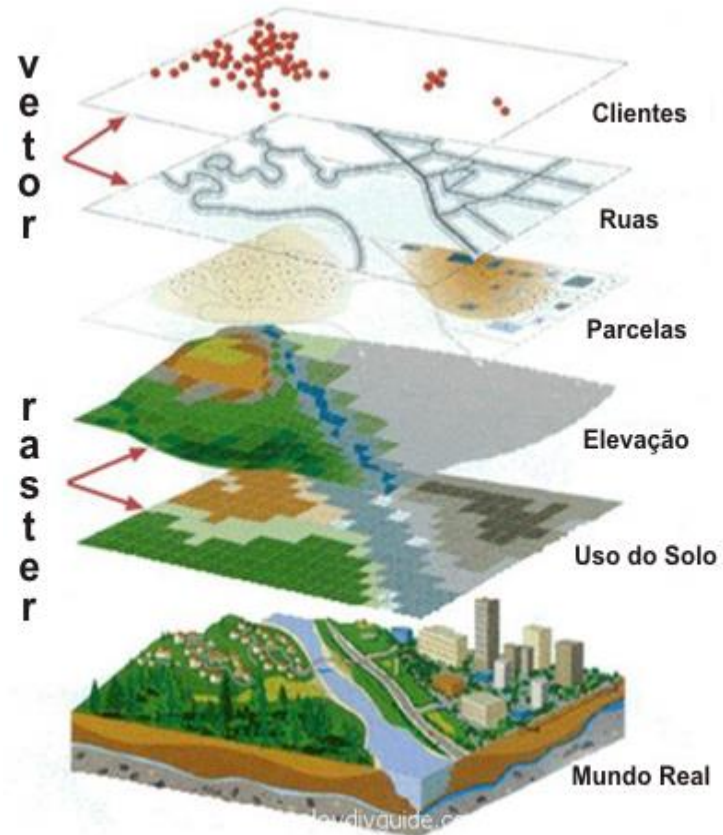


**Cadastro
Territorial
Multifinalitário
(CTM)**



Suporte à decisão

Cadastro Territorial Multifinalitário (CTM)



Sistema de Informações Geográficas (SIG)

Alternativas sustentáveis para recuperação



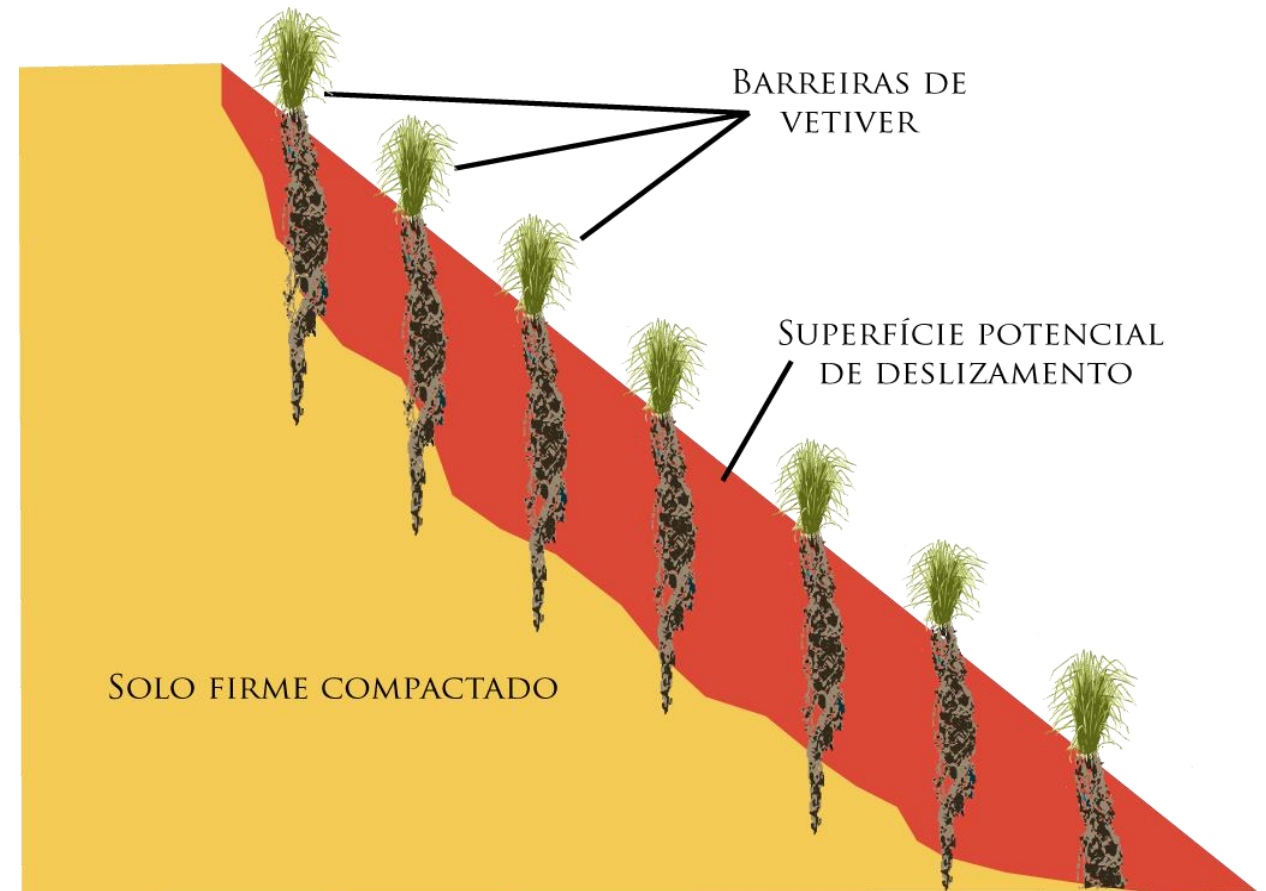
Alternativas sustentáveis para recuperação

Capim Vetiver
(*Chrysopogon zizanioides* (L.)
Roberty)

Sistema radicular profundo

Sementes estéreis

Resistente à temperaturas e pH
extremos



CADASTRO E IDENTIFICAÇÃO DE ALTERNATIVAS SUSTENTÁVEIS PARA RECUPERAÇÃO DE ÁREAS DE RISCO GEOLÓGICO ALTO E MUITO ALTO EM MACEIÓ - AL



Dúvidas



Obrigada!