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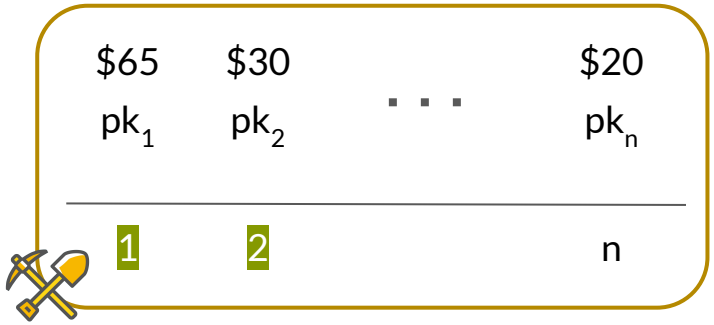

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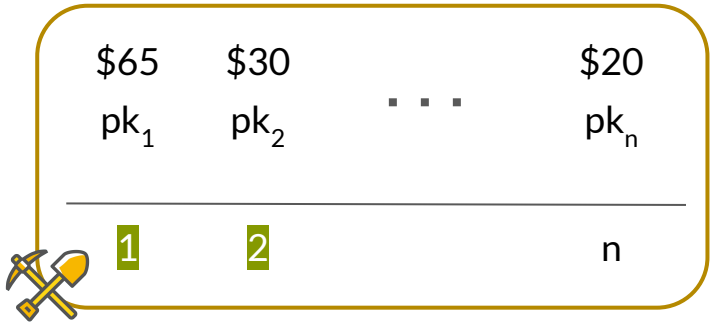

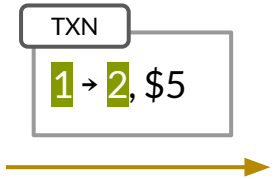

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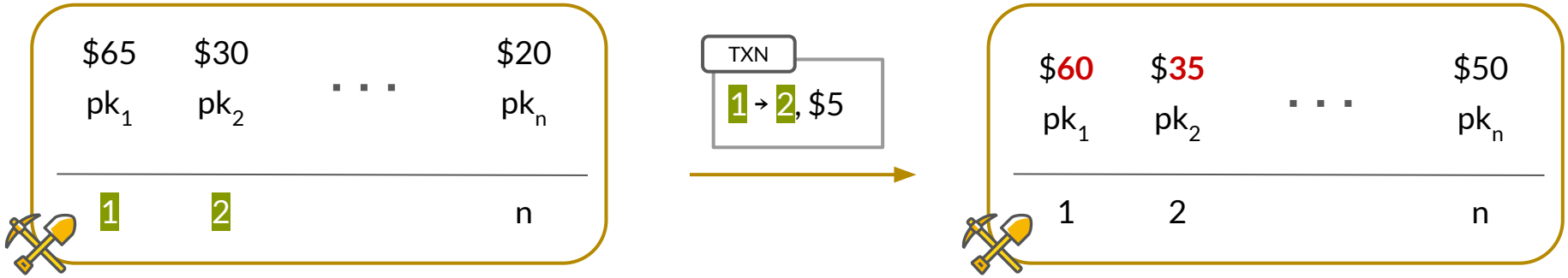
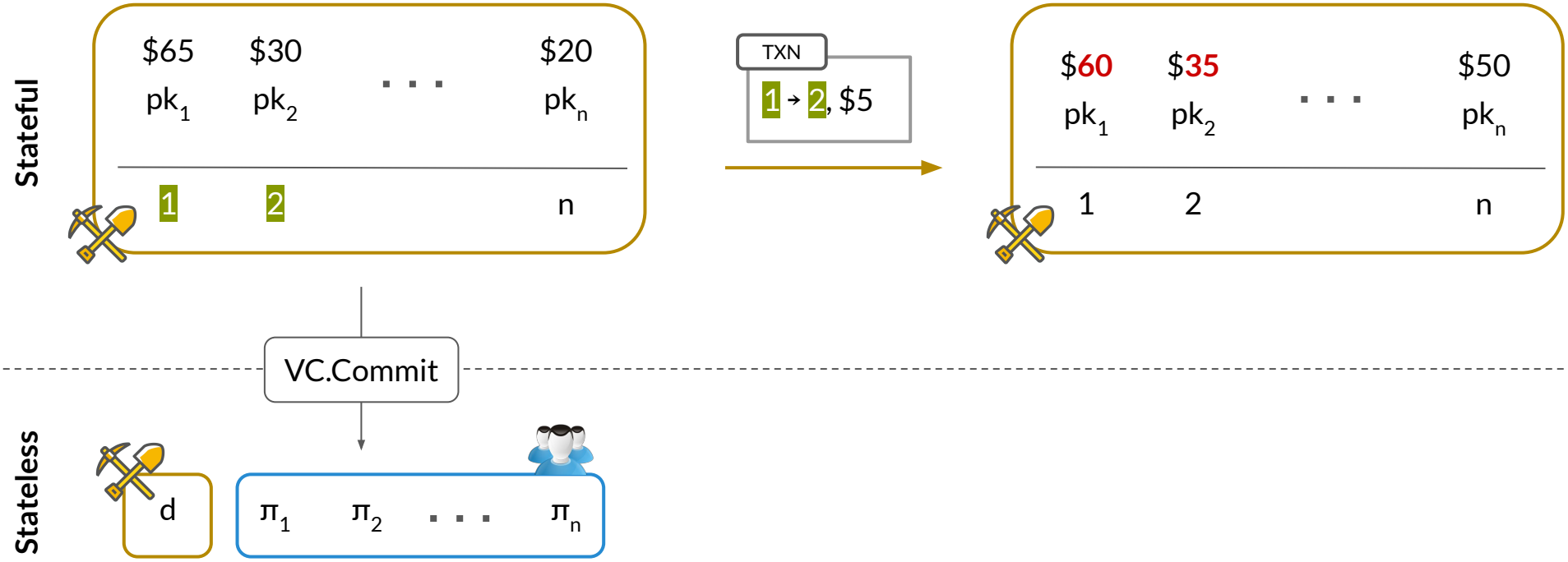
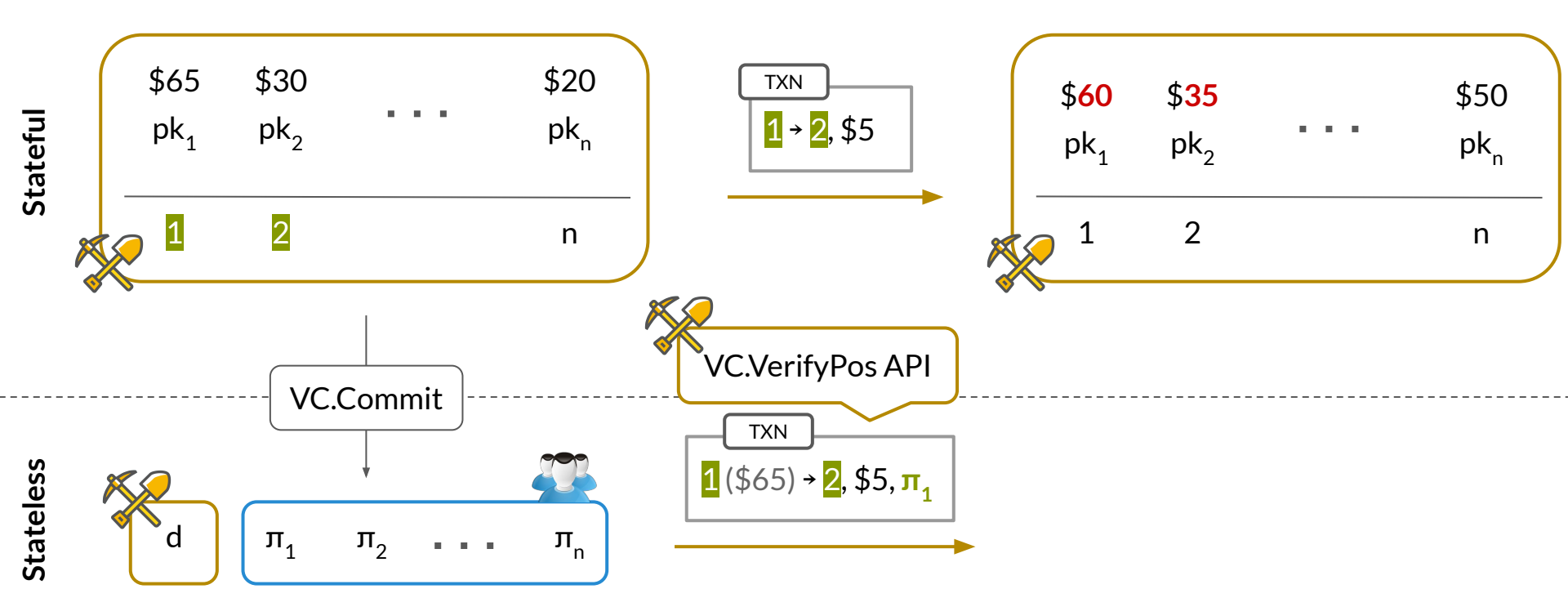



Stateful
$65
$30
$20
pk1
pk2
pkn
1
2
n
TXN
1 → 2, $5
$60
$35
$50
pk1
pk2
pkn
1
2
n
VC.Commit
Stateless
d
π1
π2
πn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pk2
pkn
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n
TXN
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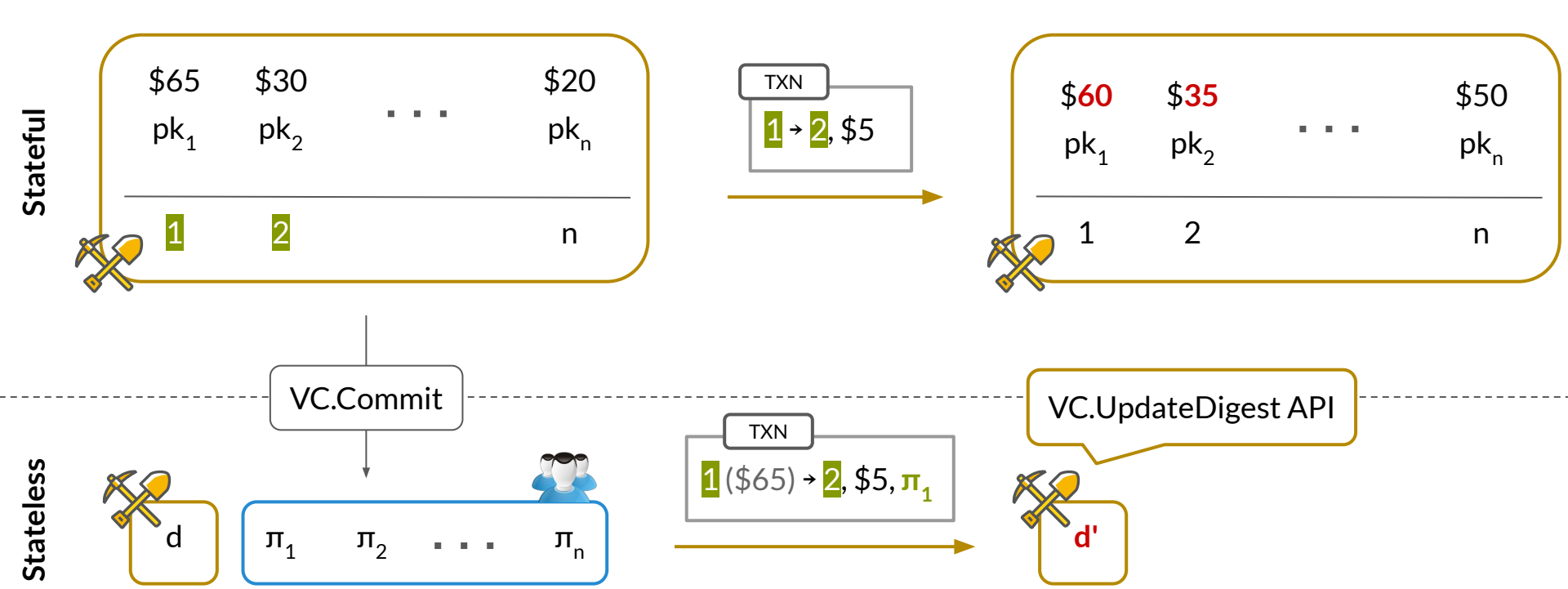
$60
$35
$50
pk1
pk2
pkn
1
2
n
VC.Commit
VC.VerifyPos API
TXN
1 ($65) → 2, $5, π1
Stateless
d
π1
π2
πn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pk1
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pk2
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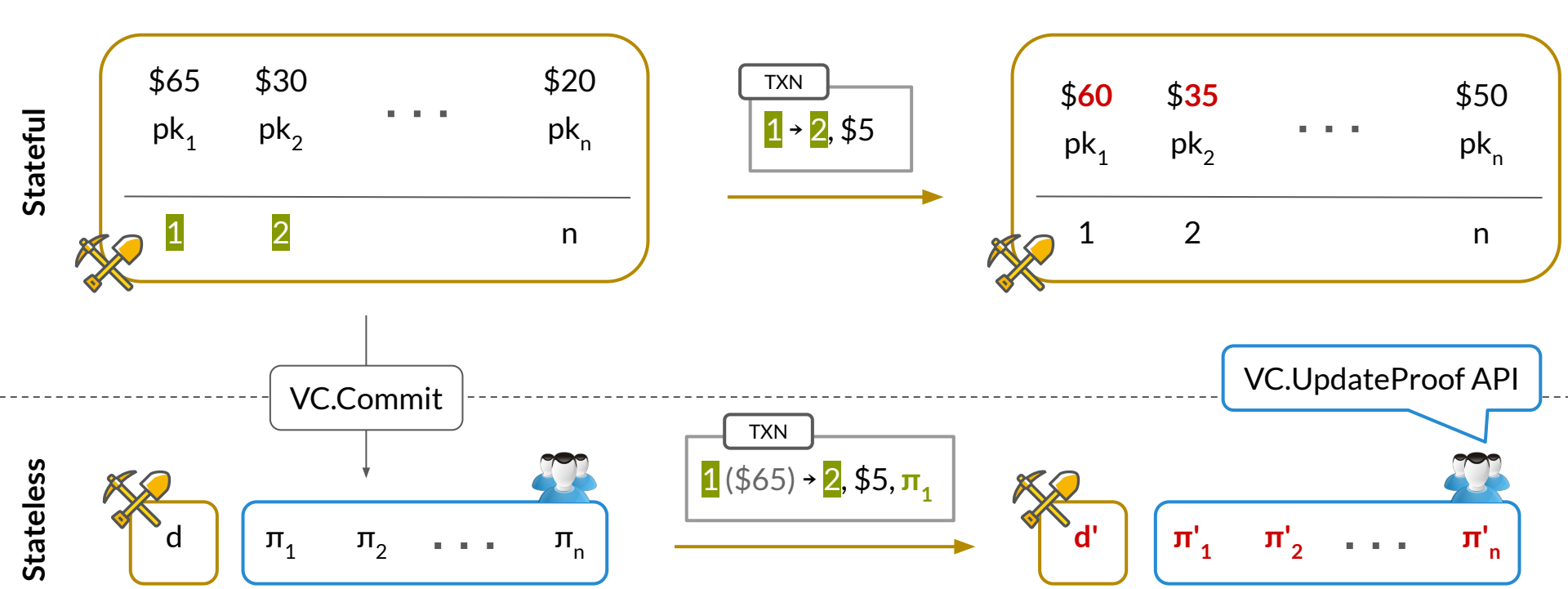
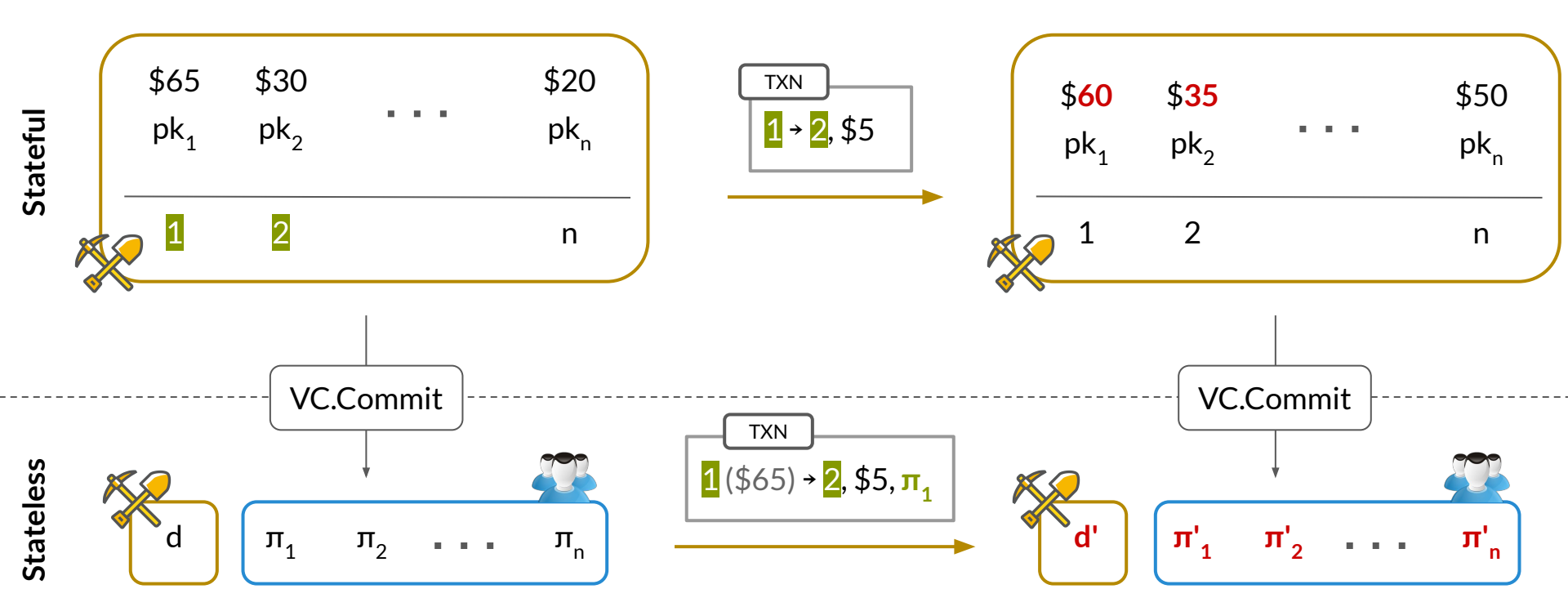
$20
pkn
1
2
n
TXN
1 → 2, $5
$60
pk1
$35
pk2
. . .
$50
pkn
1
2
n
VC.Commit
Stateless
d
π1
π2
. . .
πn
TXN
1 ($65) → 2, $5, π1
VC.UpdateDigest API
d'


Stateful
$65
pk1
$30
pk2
. . .
$20
pkn
1
2
n
TXN
1 → 2, $5
$60
pk1
$35
pk2
. . .
$50
pkn
1
2
n
VC.Commit
VC.UpdateProof API
Stateless
d
π1
π2
. . .
πn
TXN
1 ($65) → 2, $5, π1
d'
π'1
π'2
. . .
π'n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pk2
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$20
pkn
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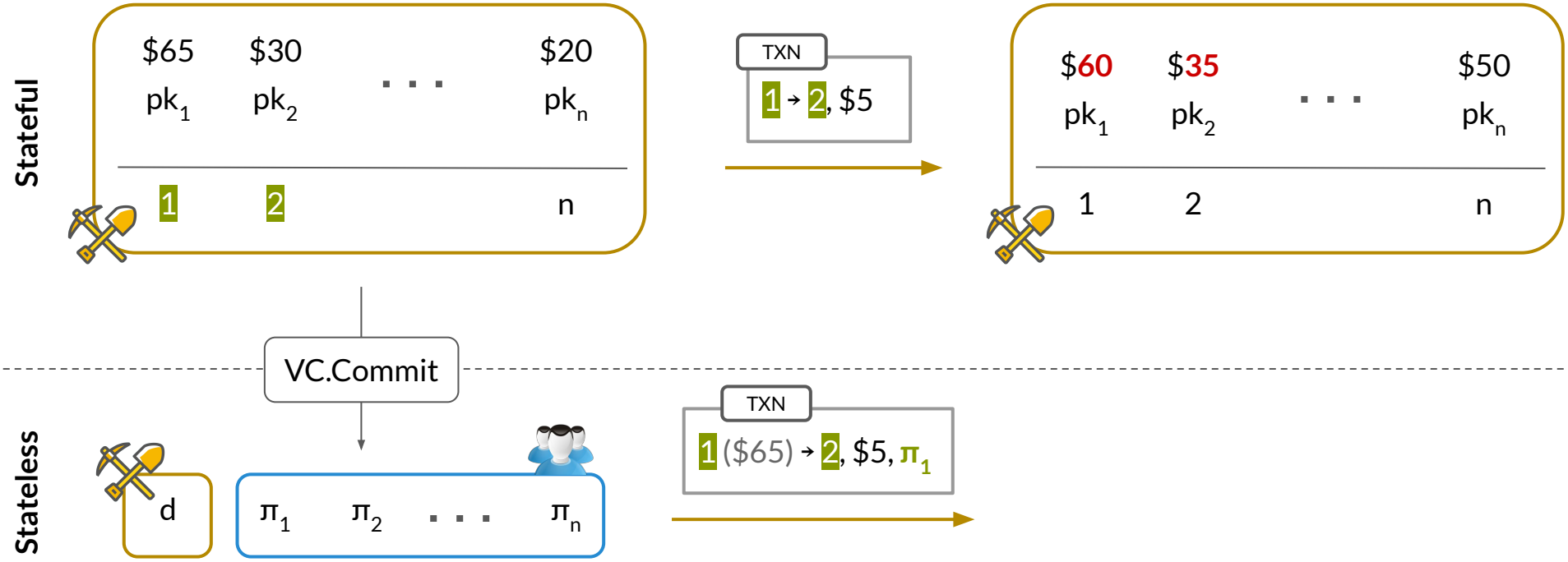
TXN
1 → 2, $5
$60
pk1
$35
pk2
. . .
$50
pkn
1
2
n
VC.Commit
VC.Commit
Stateless
d
π1
π2
. . .
πn
TXN
1 ($65) → 2, $5, π1
d'
π'1
π'2
. . .
π'n

Extra slides


Stateful
$65
pk1
$30
pk2
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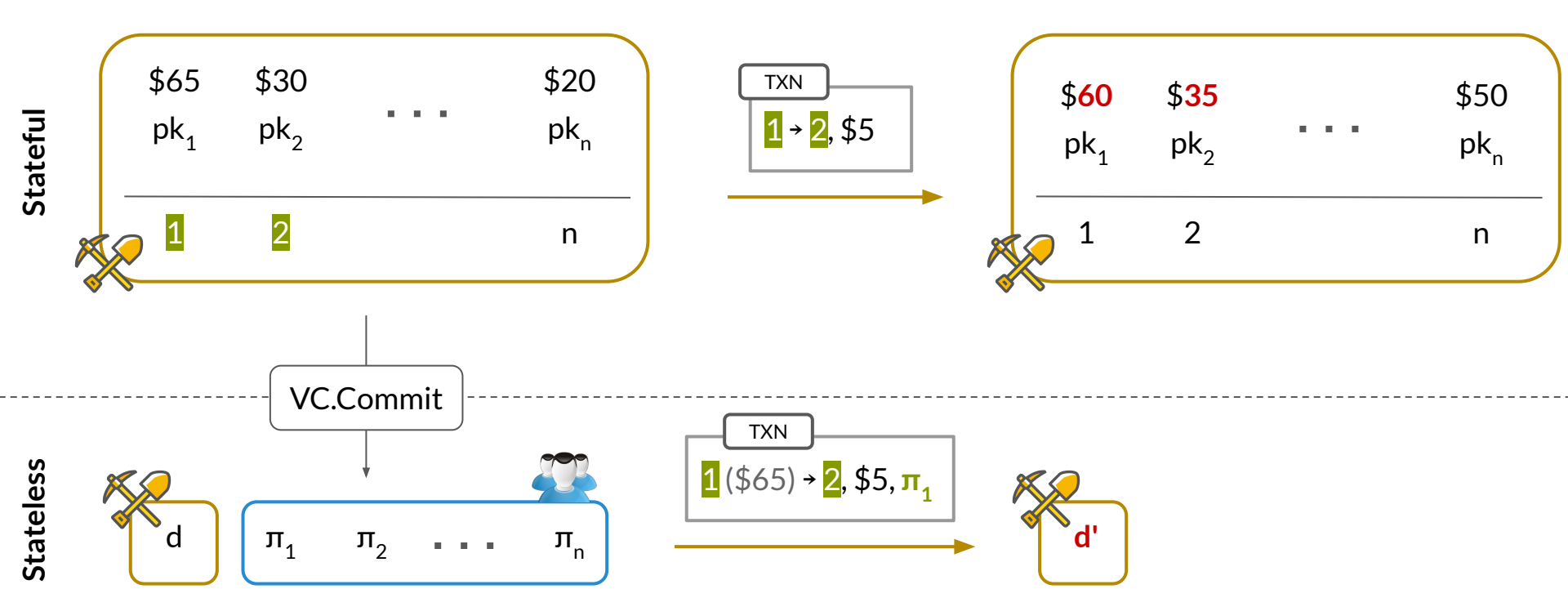
$20
pkn
1
2
n
TXN
1 → 2, $5
$60
pk1
$35
pk2
. . .
$50
pkn
1
2
n
VC.Commit
Stateless
d
π1
π2
. . .
πn
TXN
1 ($65) → 2, $5, π1


Stateful
$65
pk1
$30
pk2
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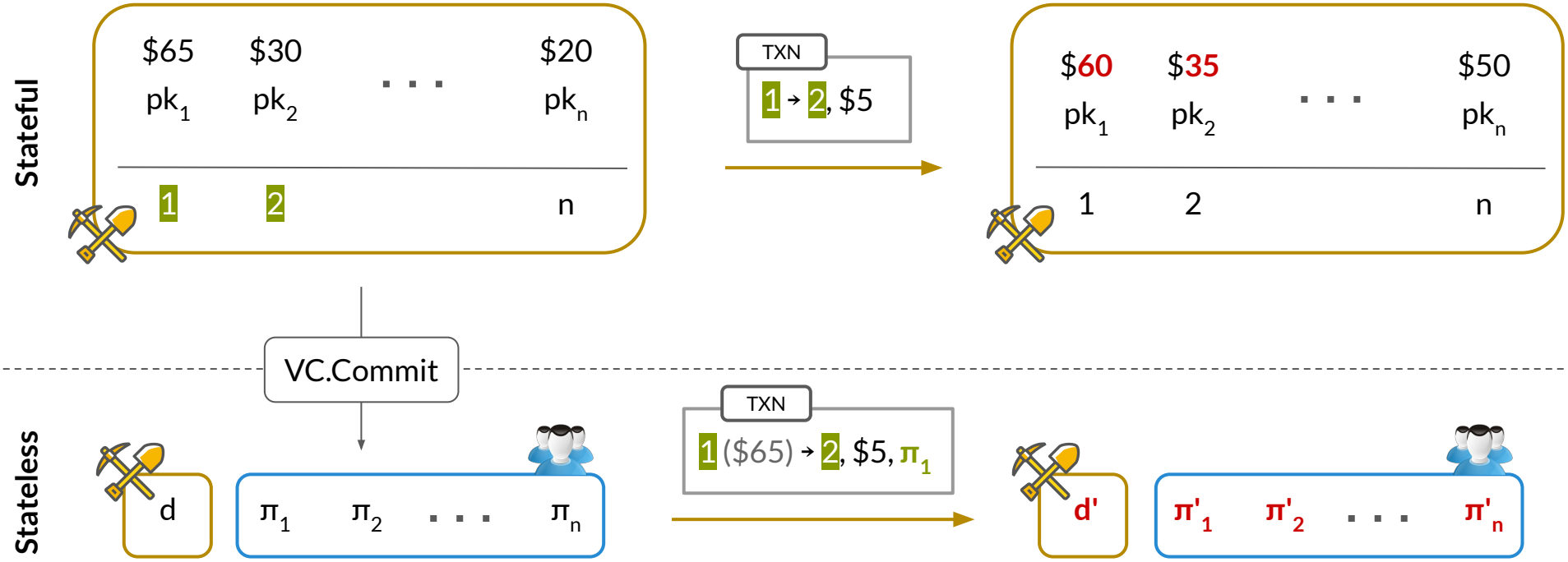
$20
pkn
1
2
n
TXN
1 → 2, $5
$60
pk1
$35
pk2
. . .
$50
pkn
1
2
n
VC.Commit
Stateless
d
π1
π2
. . .
πn
TXN
1 ($65) → 2, $5, π1
d'


Stateful
$65
pk1
$30
pk2
. . .
$20
pkn
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2
n
TXN
1 → 2, $5
$60
pk1
$35
pk2
. . .
$50
pkn
1
2
n
VC.Commit
Stateless
d
π1
π2
. . .
πn
TXN
1 ($65) → 2, $5, π1
d'
π'1
π'2
. . .
π'n