

Covering New Ground State of the Forest Carbon Markets 2013

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Support from sponsors, stakeholders and survey respondents enabled our most comprehensive report to date

Most countries ever represented (58), and widest array of variables ever tracked and reported

162 agriculture, forest or land use (AFOLU) projects reported to our global annual survey

Ecosystem Marketplace has tracked 513 unique AFOLU projects over time; 62 reported for the first time this year

Surveyed exchanges, all major registries; surveys in 3 languages

Agnostic on credit quality, but do conduct extensive due diligence and peer review of preliminary findings

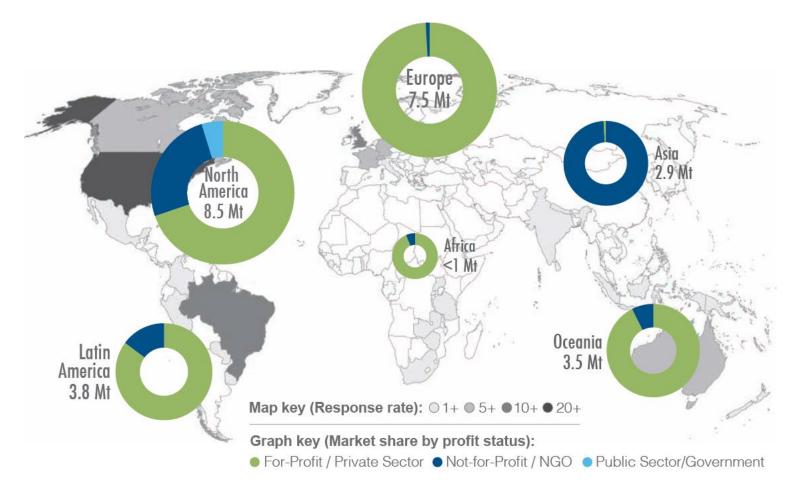
All findings volume-weighted for significance





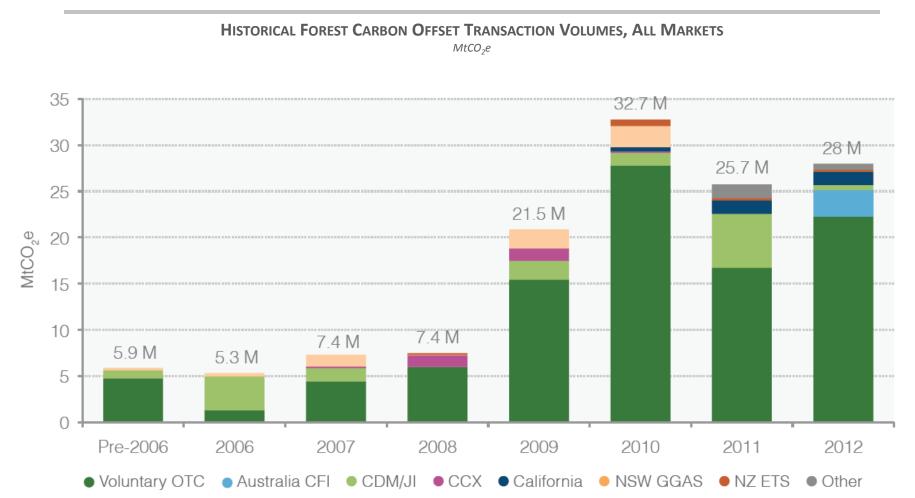
RESPONSE RATE: 162 agriculture, forest or land use (AFOLU) projects reported to our survey; one-third were from developing countries

RESPONSE RATE (BY COUNTRY); TRANSACTION VOLUME AND MARKET SHARE BY PROFIT STATUS AND REGION, 2013 SURVEY



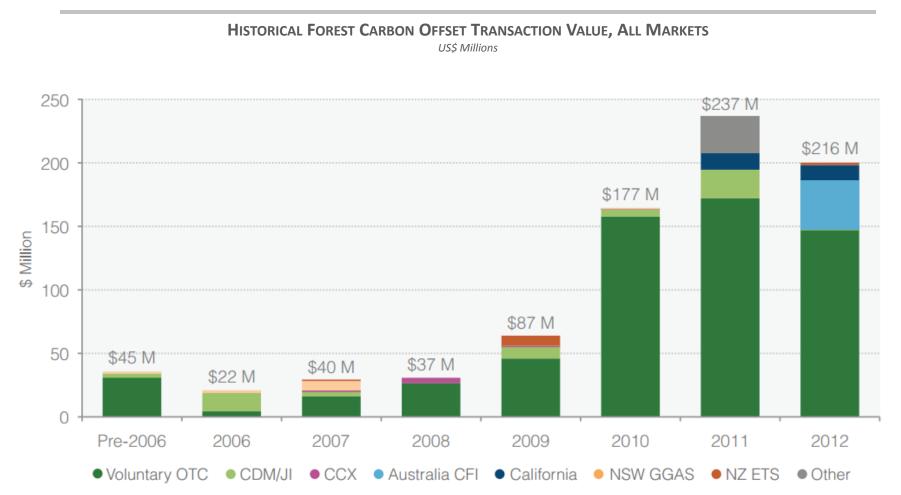


MARKET SIZE: 28 MtCO₂e contracted in 2012, a 9% increase in volume from 2012 though value dropped 8%, to \$216M, from last year's record



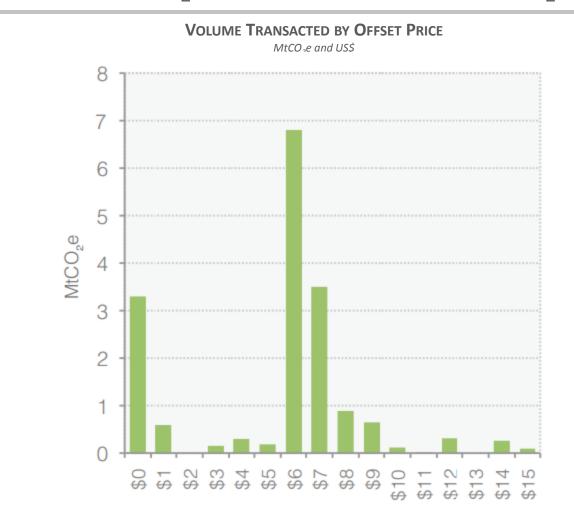


MARKET VALUE: Voluntary buyers, buoyed by pre-compliance activities in Australia and California, contracted \$198M of the \$216M market





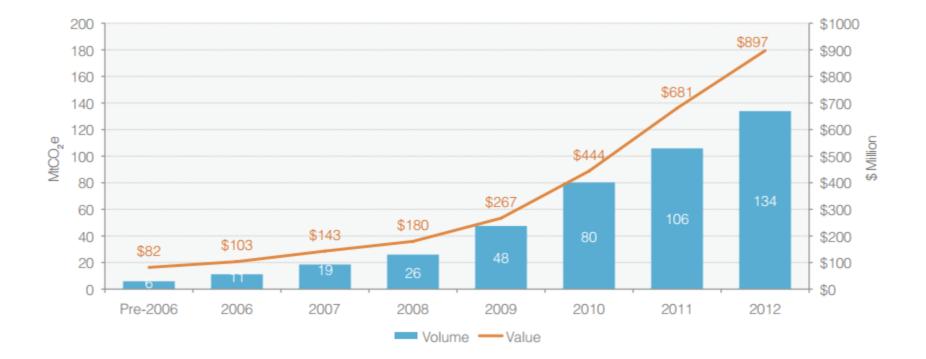
PRICE: Most forest offsets transacted at between \$6-\$7/tCO₂e; average price was \$7.8/tCO₂e in 2012, down from \$9.2/tCO₂e last year





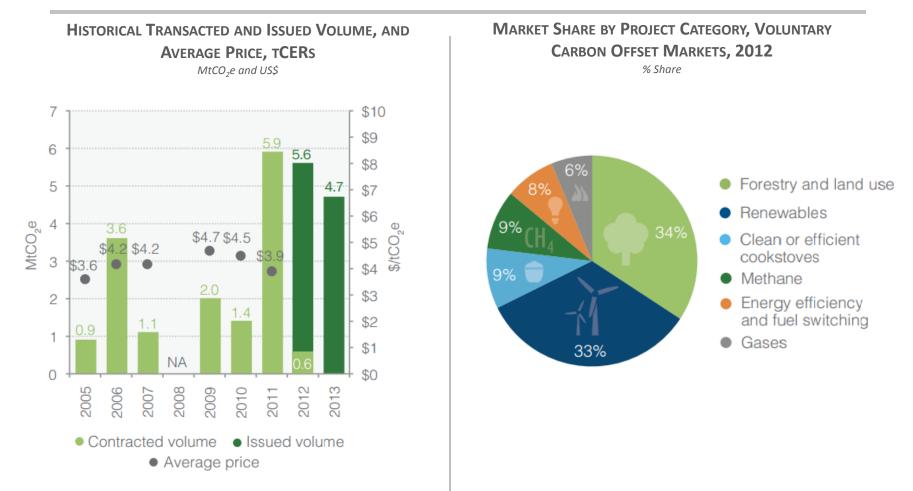
OVER TIME: The forest carbon markets have contributed \$0.9 B to forest carbon management, from the transaction of at least 134 MtCO₂e

CUMULATIVE FORESTRY OFFSET TRANSACTION VOLUME AND VALUE, ALL MARKETS MtCO₂e and US\$ Millions



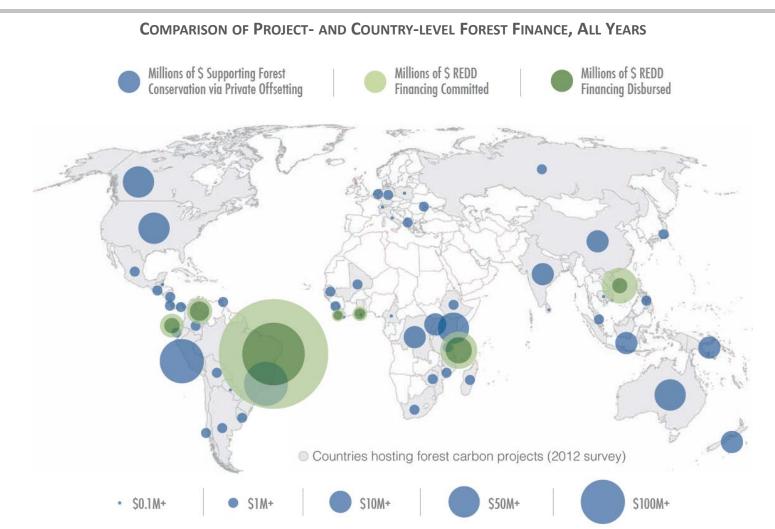


TRENDS IN OFFSETTING: CDM market plummets in volume and value in 2012, but forestry is most popular offset category in the VCM





FOREST FINANCE: Private carbon finance has funneled \$0.9 B to forests, while REDD donor countries have so far committed >\$1 B to 7 countries

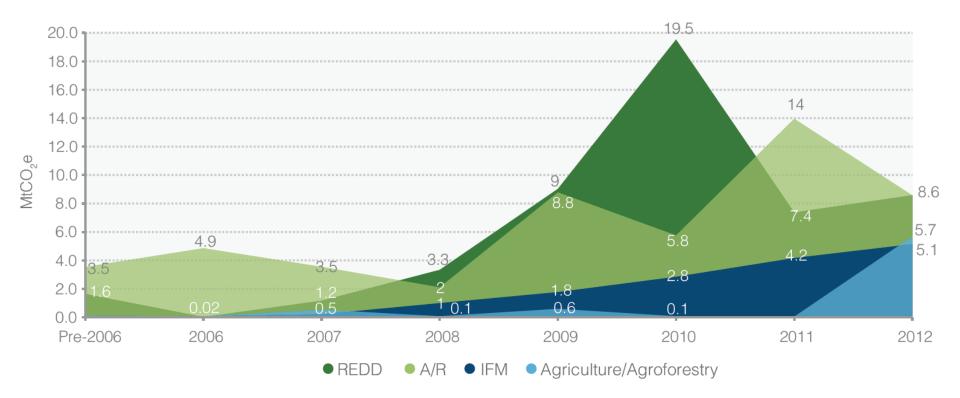




PROJECT TYPES: REDD and A/R projects both transacted 8.6 MtCO₂e while IFM and SALM/Agro-forestry transactions climbed

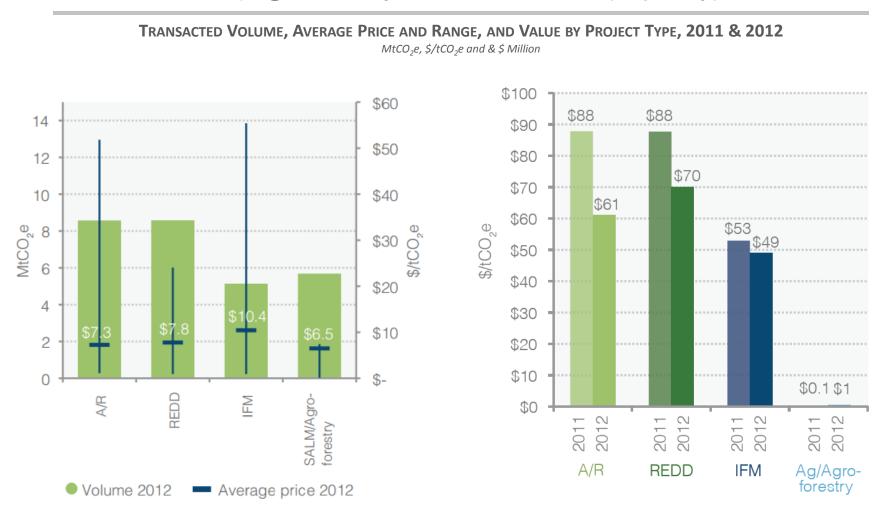


MtCO₂e





PRICING PROJECT TYPES: Consistent pricing across A/R, REDD, and SALM/agro-forestry; value falls across project types





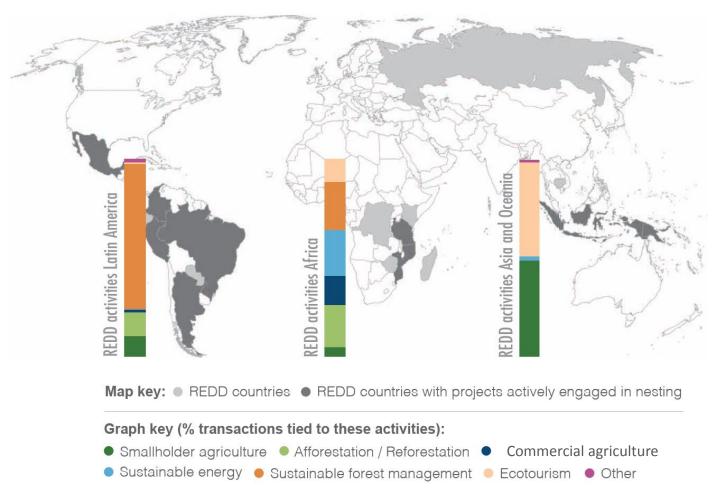
PROJECT LOCATION: Our survey tracked projects in a record 58 countries in 2012 – 4 more than 2011



● A/R ● IFM ● REDD ● SALM/Agro-forestry



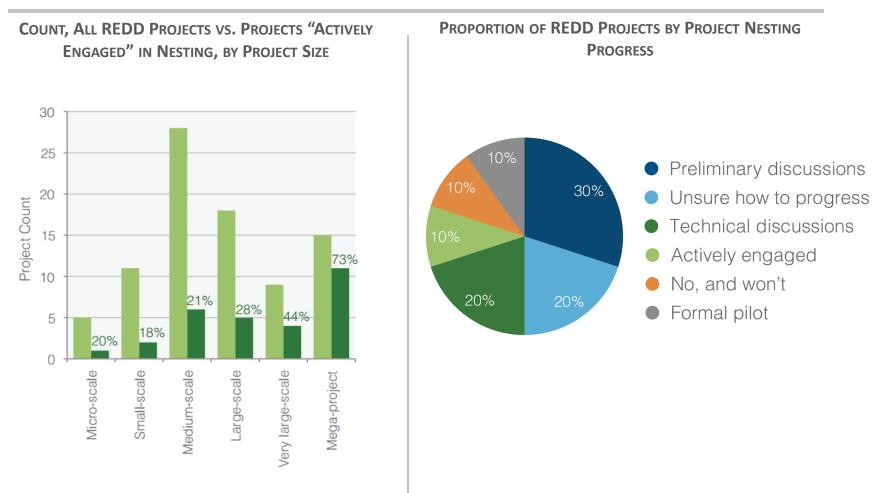
REDD ACTIVITIES: Around half of all REDD offsets were sourced from projects that engaged in sustainable forest management



REDD PROJECT COUNTRY LOCATIONS; REGIONAL DISTRIBUTION OF REDD ACTIVITIES



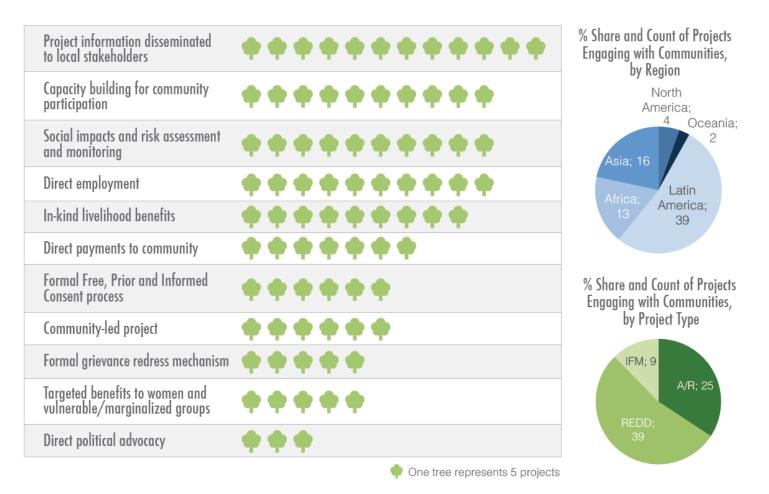
REDD NESTING: VCS, ACR, CAR, and CCB developed jurisdictional REDD approaches, a few pilot programs/projects tracked (all VCS, mostly large)





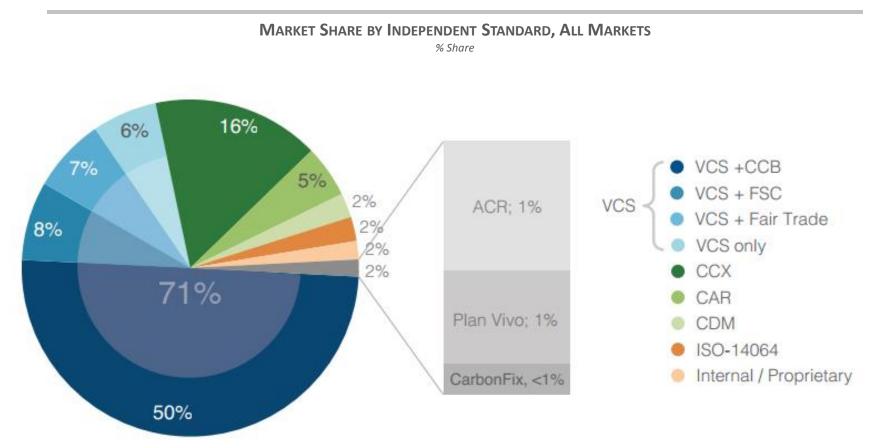
COMMUNITY ENGAGEMENT: 74 projects engage forest communities; 32 projects have formal FPIC process, 19 of which transacted offsets

PROJECT ENGAGEMENT WITH COMMUNITIES, REGION AND PROJECT TYPE, 2012



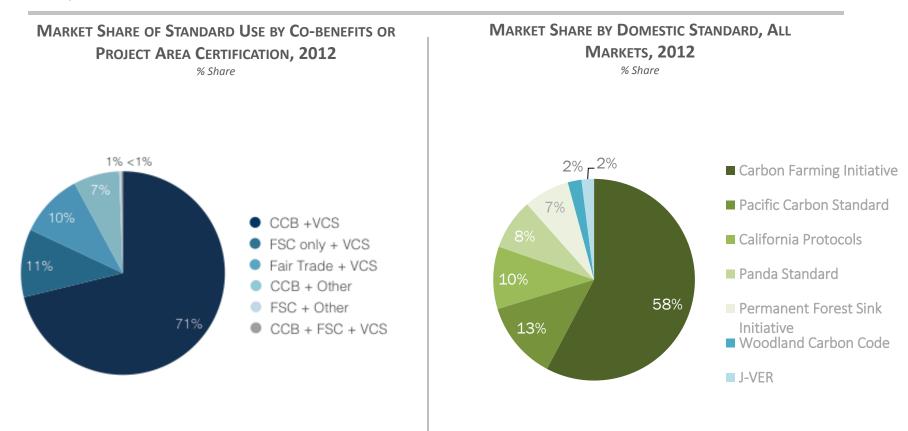


INDEPENDENT STANDARDS: VCS share more than doubled; offsets developed according to CDM methodology fell to 2% of transactions



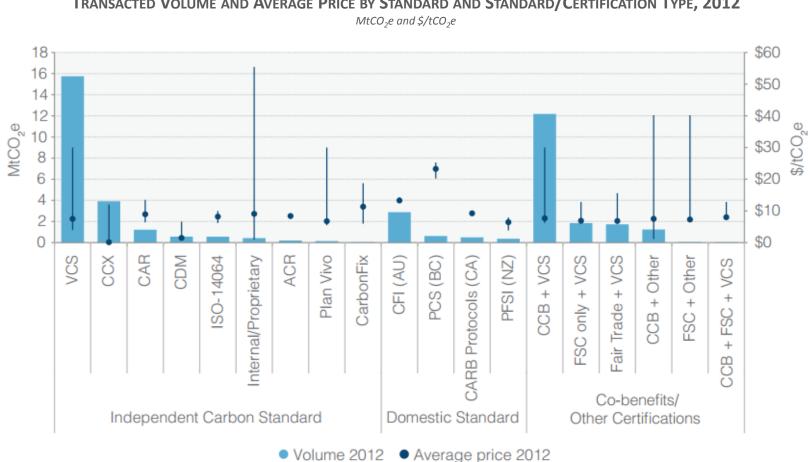


CO-BENEFITS AND DOMESTIC STANDARDS: 12.2 MtCO₂e transacted pursued CCB+VCS; domestic standards held 28% of market share





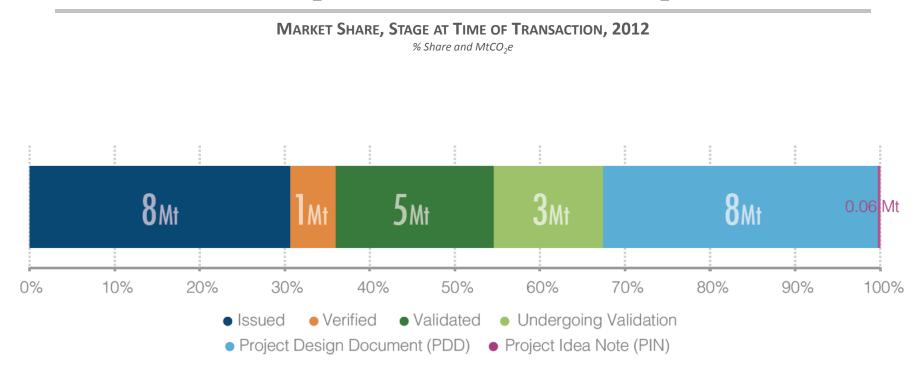
VOLUME AND PRICE BY STANDARD: CCB certification priced \$0.2 to \$0.5 above average VCS forestry offsets; wide range of prices across stds



TRANSACTED VOLUME AND AVERAGE PRICE BY STANDARD AND STANDARD/CERTIFICATION TYPE, 2012



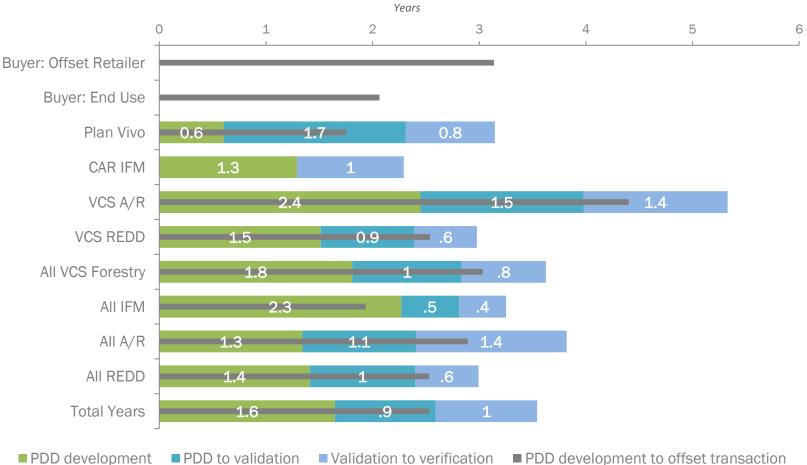
PROJECT STAGE: Registries reported the largest-ever volume of offsets issued – 8 MtCO₂e – and/or retired – 2.6 MtCO₂e – in 2012





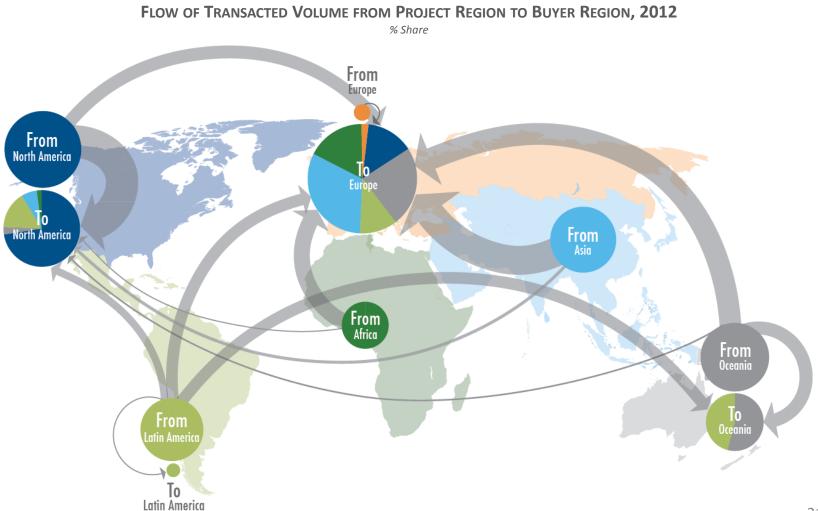
PROJECT MILESTONES: Average time from PDD development to offset verification is 3.5 years, with first contract signed 2.5 years in

SUPPLIER-ESTIMATED AVERAGE YEARS TO ACHIEVE PROJECT MILESTONES, BY PROJECT TYPE, STANDARD AND BUYER TYPE



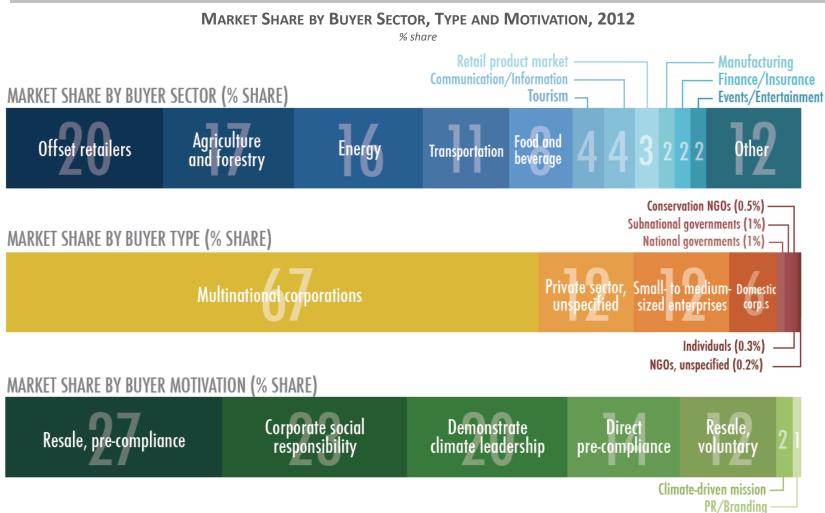


TRANSACTION FLOWS: EU buyers were the largest source of demand, followed by North American buyers, who preferred to offset locally(ish)





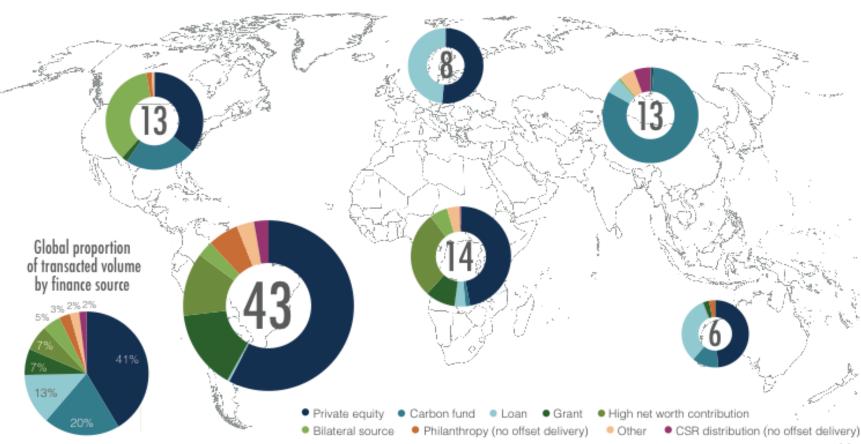
BUYERS: Multinational corporations transacted two out of every three offsets; land-dependent sectors demanded 9.7 MtCO₂e





OUTSIDE FINANCE: Private equity supported 38 carbon projects, predominantly supportive of REDD; Grant \$ plays significant role

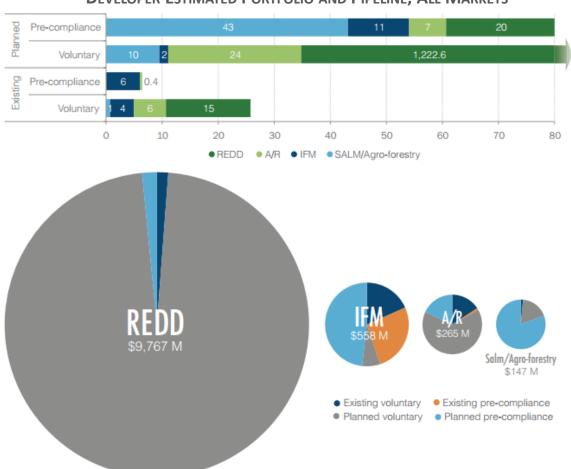
PROPORTION OF TRANSACTED VOLUME AND COUNT OF PROJECTS UTILIZING OTHER FINANCE SOURCES: BY PROJECT AND REGION GLOBALLY



% Share and Project Count (inside donuts)



IN THE PIPELINE: Market requires significant growth in order to support 1.4 billion offsets in the 5-year pipeline, 93% of which are REDD



DEVELOPER ESTIMATED PORTFOLIO AND PIPELINE, ALL MARKETS



PREDICTIONS: Respondents predict 9% market growth, report 5-year supply pipeline of 1.4 $\underline{B}tCO_2e$

HISTORICAL GROWTH AND PROJECT DEVELOPER PREDICTIONS ON ESTIMATED ANNUAL ISSUANCE

MtCO₂e

